

July 31, 2006

Dan Casey Manager of Economic Development City of Rochester Hills 1000 Rochester Hills Drive Rochester Hills, MI 48309

Application for Industrial Facilities Tax Exemption



Re:

Energy Conversion Devices is pleased to submit the above-referenced application and required attachments in reference to 2923 Technology Drive.

Please note, as we discussed, the job creation number noted on the application includes employees for the Technology Drive location as well as additional employees for existing Rochester Hills-based facilities.

Should you have any questions, please contact me at (248) 293-0440. Thank you for your assistance.

Sincerely,

Nancy M. Bacon Senior Vice President

Enclosures:

Letter of Request from Property Owner for Establishment of District (3)

\$500 fee for Establishment of District - check from Property Owner

Application for Industrial Facilities Exemption Certificate w/attachments (3)

\$500 Application Fee - check from ECD

Company Profile (3)

Rochester Hills

Site Map - Highlight location to be occupied (3)

Legal Description of Property (3)

Executed Copy of Lease (3)















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ROCHESTER HILLS PLANNING DEPT.

# JOEL NOSANCHUK

July 28, 2006

Mr. Bryan Barnett, Mayor City of Rochester Hills 1000 Rochester Hills Dr. Rochester Hills, MI 48309

Re:

Letter of Intent Regarding Lease for

2923 Technology Drive, Rochester Hills, Michigan

Dear Mayor Barnett:

The undersigned formally requests that the City of Rochester Hills establish an Industrial Development District at 2923 Technology Drive, Rochester Hills, Michigan for which the legal description is:

The South 133 feet of Lot 33 and the North 142 feet of Lot 34, "Rochester Hills Executive Park" as recorded in Liber 199, Pages 26-30, Oakland County Public Records. Lying in the Southwest 1/4 of Section 29, and the Southeast 1/4 of Section 30, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan. Containing 132,000 square feet, or 3.03 acres.

A lease between Energy Conversion Devices Inc. and myself is conditional upon and subject to Energy Conversion Devices, Inc. receiving all incentives and grants available from the State and/or City. The Lease would commence on August 1, 2006 with an expiration of October 31, 2011 and includes a five (5) year option, which would expire October 31, 2016. I understand from Energy Conversion Devices, Inc. that if this request is not granted within 90 days they will look elsewhere for a new facility.

If you have any questions about the matters discussed above, please feel free to call me.

Very truly yours,

Joel Nosanchuk

cc: Joe Pietrangeli, Director of Purchasing and Corporate Services - Energy Conversion Devices, Inc.

Daniel B. Casey, Manager/Economic Development for the City of Rochester Hills

# **Application for Industrial Facilities Tax Exemption Certificate**

Issued under authority of P.A. 198 of 1974, as amended. Filing is mandatory.

**INSTRUCTIONS:** File the original and two copies of this form and the required attachments (three complete sets) with the clerk of the local government unit. The State Tax Commission (STC) requires two complete sets (one original and one copy). One copy is retained by the clerk. If you have any questions regarding the completion of this form or would like to request an informational packet, call (517) 373-3272.

To be completed by Cle	ork of Local Government Unit
Signature of Clerk	Date received by Local Unit
STC	Use Only
Application Number	Date Received by STC
APPLICANT INFORMATION All boxes must be completed.	
1a. Company Name (Applicant must be the occupant/operator of the facility)	1b. Standard Industrial Classification (SIC) Code - Sec. 2(10) (Four Digit Code)
1c. Location of Facility (Street, City, State, ZIP Code)	1d. Name of City/Township/Village (Indicate which)  1e. County
2. Type of Approval Requested  New (Sec. 2(4))  Speculative Building (Sec. 3(8))  Transfer (1 copy to only Rehabilitation (Sec. 3(1))	
Research and Development (Sec. 2(9))	The state of the s
6a. Cost of land and building improvements (excluding cost of land)  * Attach list of improvements and associated costs.  * Also attach a copy of building permit if project has already begun.  6b. Cost of machinery, equipment, furniture and fixtures  * Attach itemized listing with month, day and year of beginning of ir	Real Property Costs
6c. Total Project Costs	·
certificate unless otherwise approved by the STC.	lation. Projects must be completed within a two year period of the effective date of the
Begin Date (M/D/Y)	End Date (M/D/Y)
Real Property Improvements	Owned Leased
Personal Property Improvements	Owned Leased
8. Are State Education Taxes reduced or abated by the Michigan Economic Develop Committment to receive this exemption.  Yes No	ment Corporation (MEDC)? If yes, applicant must attach a signed MEDC Letter of
9. Number of existing jobs at this facility that will be retained as a result of this project	Number of new jobs at this facility expected to be created within two years of project completion.
Rehabilitation applications only: Complete a, b and c of this section. You must at SEV data below must be as of December 31 of the year prior to the rehabilitation.     SEV of Real Property (excluding land)     b. SEV of Personal Property (excluding inventory)     c. Total SEV	
12a. Check the type of District the facility is located in:  Industrial Development District  Plant Reha	abilitation District
12b. Date district was established by local government unit	12c. Is this application for a speculative building (Sec. 3(8))?  Yes No

### APPLICANT CERTIFICATION

The undersigned, authorized officer of the company making this application certifies that, to the best of his/her knowledge, no information contained herein or in the attachments hereto is false in any way and that all are truly descriptive of the industrial property for which this application is being submitted.

It is further certified that the undersigned is familiar with the provisions of P.A. 198 of 1974, as amended, being Sections 207.551 to 207.572, inclusive, of the Michigan Compiled Laws; and to the best of his/her knowledge and belief, (s)he has complied or will be able to comply with all of the requirements thereof which are prerequisite to the approval of the application by the local unit of government and the issuance of an Industrial Facilities Exemption Certificate by the State Tax Commission.

Exemption Certificate by the State Tax	COmmission.				
13a. Preparer Name Nancy M. Bacon	13b. Phone Number (248) 293-0440	13	3c. Fax Number (248) 844-1214		13d. E-mail Address nbacon@ovonic.com
14a. Name of Contact Person Joseph J. Pietrangeli	14b. Phone Number (248) 293-0440	14	lc. Fax Number (248) 844-2290		14d. E-mail Address jpietrangeli@ovonic.com
15a. Name of Company Officer (No Authori Nancy M. Bacon, Senior Vic		·			
15b. Signature of Company Officer (No Aut	harized Agents)				15c. Date / / 0.6
15d. Mailing Address (Street, City, State, Z 2956 Waterview Drive	P)	15	ie. Phone Number (248) 293-0440	1	15f. E-mail Address nbacon@ovonic.com
LOCAL GOVERNMENT ACTI This section must be completed by the at the Local Unit and those included w	clerk of the local governing	unit before s	``		x Commission. Check items on file
16. Action taken by local government unit  Abatement Approved for	Years (1-12)	ad	Iministratively complete and Indicate N/A if Not Ap	pplication:	ne tollowing documents be med for an
After Completion Yes			1. Original Applica	ation plus atta	chments, and one complete copy
Denied (Include Resolution D	enying)		2. Resolution esta 3. Resolution app	•	Ì
16a. Documents Required to be on file with Indicate N/A if Not Applicable  1. Notice to the public prior to h 2. Notice to taxing authorities of 3. List of taxing authorities noti 4. Lease Agreement showing a	learing establishing a district f opportunity for a hearing. ied for district and applicatio	T Professional Control	5. Affidavit of Fee 6. Building Permit 7. Equipment List 8. Form 3222 (if a	s (Signed by le t for real impro with dates of applicable)	by local unit and applicant) ocal unit and applicant) vements if project has already begun beginning of installation on and affidavits (if applicable)
17. Name of Local Government Body		18	. Date of Resolution Appr	oving/Denying th	nis Application
Attached hereto is an original and or are on file at the local unit for inspec	ne copy of the application at	and all docu	ments listed in 16b. I	also certify t	hat all documents listed in 16a
19a. Signature of Clerk	19b. Name of Cle	erk		19c. E-mail Ad	dress
19d. Clerk's Mailing Address (Street, City, S	tate, ZIP) 19e. Phone Numl	ber		19f. Fax Numb	er
State Tax Commission Rule Number 5' each year will be acted upon by Decem	7: Complete applications applications applications receive	proved by the d after Octob	local unit and receive er 31 may be acted up	d by the State oon in the follo	Tax Commission by October 31 wing year.
Local Unit: Mail one original and one constant Tax Commission Michigan Department of Treasury P.O. Box 30471 Lansing, MI 48909-7971	opy of the completed applica	tion and all re	equired attachments to	o:	

	STC US	EONLY	
LUCI Code	Begin Date	End Date	End Date2
THE STATE OF THE S			

# Project Description

(Box 5 on PA 198 Application)

The Technology Drive facility (50K ft2) will be used as an assembly plant to produce vacuum deposition chambers and other components for ECD's Production Technology Division prior to delivery and final qualification within ECD's Uni-Solar Division. The plant will be designed around a lean manufacturing process in order to effectively assemble chambers and associated components with high quality and short lead times for eventual production of solar panels. Additional infrastructure requirements for the Technology Drive facility are as follows:

- 1. 5 Ton and 10 Ton bridge crane
- 2. A clean room
- 3. Miscellaneous shop equipment to include saw, mill, lathe, sand blaster, welder
- 4. Miscellaneous cleaning equipment to include a small ultrasonic cleaner
- 5. HVAC upgrade
- 6. Separation Walls between the office area and shop floor
- 7. IT equipment to include high speed connection to the building, computers, etc.

No building additions are expected at this time. The majority of noted infrastructure requirements will be purchased new.

# **ENERGY CONVERSION DEVICES**

Continuous Build Estimate Estimate Date: July 2006

# **MAXIMUM**

	Description		007 FY <u>/06 – 6/07</u>	008 FY 07 – 6/08	2	Year Total
6.a	Building improvements Including cranes, HVAC changes, separation walls, and a Clean Room	\$	500,000	\$ 200,000	\$	700,000
6.b	Cost of machinery, equipment furniture and fixtures	,				
	* Machine Shop Machinery	\$	280,000	\$ 150,000	\$	430,000
	* R&D Machinery for Growth	\$	100,000	\$ 750,000	\$	850,000
	* IT Related Costs	<u>\$</u>	250,000	\$ 200,000	\$	450,000
	Totals	\$	630,000	\$ 1,100,000	\$1	,730,000

# **MINIMUM**

	Description		007 FY /06 – 6/07	008 FY 7 – 6/08	2	<u>Year Total</u>
6.a	Building improvements Including cranes, HVAC changes, separation walls, and a Clean Room	\$	400,000	\$ 100,000	\$	500,000
6.b	Cost of machinery, equipment furniture and fixtures	,				
	* Machine Shop Machinery	\$	180,000	\$ 85,000	\$	265,000
	* R&D Machinery for Growth	\$	20,000	\$ 40,000	\$	60,000
	* IT Related Costs	\$	100,000	\$ 75,000	\$	175,000
	Totals	\$	300,000	\$ 200,000	\$	500,000

# ECD Company Profile

ECD is a high technology company concentrating on developing clean energy generation, energy storage and information products. ECD and United Solar Ovonic (its solar subsidiary) are world leaders in thin-film amorphous silicon photovoltaics (PV), the direct conversion of sunlight to electricity. They have developed a unique line of lightweight, rugged and flexible solar products.

ECD is a world leader in nickel metal hydride (NiMH) battery technology developed for use in consumer electronic products, electric and hybrid vehicles, and stationary power applications. NiMH batteries, currently being manufactured in a 50/50 joint venture with Chevron, have use in cars, buses, electric scooters and other battery driven products. ECD is also engaged in the development of fuel cell and hydrogen storage systems technologies, and in the further development of electrical memories with Intel and other products with GE.

# Equipment List (re 2923 Technology Drive)

		* 7 * 3 * - 1			
	Application For Industrial Facilities Exemption Certificate	al Facilities	Exemption	Certificate	
6a Building Improvements including chg's, separation walls & clean room	6a Building Improvements including cranes, HVAC chg's, separation walls & clean room				
	Description	Projected Install Date	Expected Cost Fy 07	Projected Install Date	Expected Cost Fy 08
	Walls & Celling clean room		\$ 125,000.00		
Interior construction	Lunch room	8/15/2006		7/15/2007	100000000000000000000000000000000000000
	Floor drains for water containment	9/15/2006	\$ 10,000.00	8/30/2007	
	Lavatories Front office partitions		\$ 15,000.00		\$ 12,000.00
	Floor	00000		100001	
Finishes	Front Office	8/15/2006	İ	//15/200/	\$ 45,000.00
	Lavatories	3/13/2000		8/30/Z001	\$ 18,000.00
Doors Frames Hdw	Clean Room rolling door	8/15/2006	\$ 8,500.00		
	Clean room access	9/15/2006			
	Lighting & Power				\$ 45,000.00
dia M	HVAC Clean room	8/15/2006		7/15/2007	
1	Plumbing	9/15/2006	\$ 22,000.00	8/30/2007	\$ 15,000.00
	HVAC Front office				\$ 65,000.00
:	Crane	8/15/2006	٦		
Structural Modifications	Roof ventilation	9/15/2006	1		
	Crane structural supports		ŀ	***************************************	
	6a Totals		\$ 500,000.00		\$ 200,000.00
6b Cost of Machinery, 6	equipment, furniture & fixtures				
	Vertical Boring Mill		\$ 135,000.00		\$ 30,000.00
	Lathe	9/15/2006		7/15/2007	\$ 85,000.00
Machine Shop	Small Parts Washer	2/28/2007		12/15/2007	
	Tooling to support Mills & Lathe	ì			\$ 10,000.00
	Small bridgeport Will		ľ		ľ
	macillie shop subjudies		7		00.000,0CF &
	Aluminum Test Chamber Cell Plasma Vacuum Denostiton Test		\$ 75,000.00		345,000,00
R&D Machinery for Growth	Helium Leak Detection Equipment	9/15/2006	\$ 25,000,00	7/15/2007	1
	Additional Vacuum Pumps	2/28/2007		12/15/2007	I
	Low Mass flow controllers				-
	R&D Mach. Subtotals		\$ 100,000,00		\$ 725,000.00
	Servers/Storage		\$ 25,000.00		\$ 50,000,00
	Workstations	9/15/2008	\$ 140,000.00	7/15/2007	\$ 125,000.00
T Related Costs	ERP Software	2/28/2007	\$ 25,000.00	12/15/2007	
	CAD modeling software		\$ 25,000.00		\$ 25,000.00
	Chayman soliware		ľ		000000
	i Subiolais				a 200,000,00
	6b Totals		\$ 630,000.00		<b>  \$ 1,075,000.00  </b>



# ENERGY CONVERSION DEVICES, INC.

2956 Waterview Drive Rochester Hills . MI 48309 . USA

T 248 293 0440

F 248 844 1214

### THE COMPANY

Energy Conversion Devices, Inc. (ECD Ovonics) is an advanced technology, product development and manufacturing company engaged in developing, commercializing and managing a portfolio of revolutionary technologies and products with numerous applications for energy generation, energy storage and information systems industries. Its clean energy and information business units include:

Energy Generation — UNI-SOLAR® Photovoltaic Products

— Ovonic<sup>®</sup> Fuel Cell

Energy Storage — Ovonic® NiMH Batteries

Ovonic<sup>®</sup> Hydrogen Storage Systems

• Information Systems — Electronic Memory

Ovonic Unified Memory™ (OUM™)

### **ENERGY TECHNOLOGY**

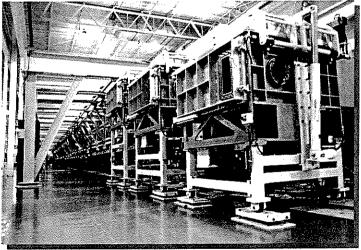
# **Photovoltaics**

ECD Ovonics and United Solar Ovonic, its wholly-owned subsidiary, are world leaders in thin-film amorphous silicon photovoltaic (PV) technology – the direct conversion of

sunlight into electricity. They hold world records in amorphous silicon stabilized energy conversion efficiency, and own 80 U.S. patents and 124 foreign counterparts in the PV field.

United Solar Ovonic, as the world leader in thin-film solar technologies and the manufacturer of thin-film solar electric modules and laminates, offers the most cost-effective and reliable solution to its customers to supplement their energy needs from solar electricity. UNI-SOLAR® products are lightweight, rugged and flexible – distinctions and solutions are solved.

tinctive characteristics among solar products. The lightweight, flexible structure lends itself ideally to unique solar electric



The 25MW annual capacity photovoltaic manufacturing machine using ECD Ovonics' proprietary continuous roll-to-roll solar cell deposition process. (United Solar Ovonic, Auburn Hills, Michigan, USA.)

roofing products. Additionally, United Solar Ovonic provides a 20-year limited warranty on all its solar roofing products.

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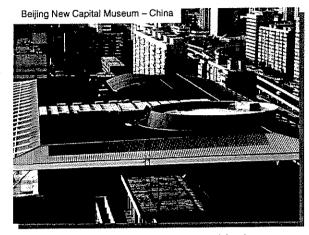
Page 2



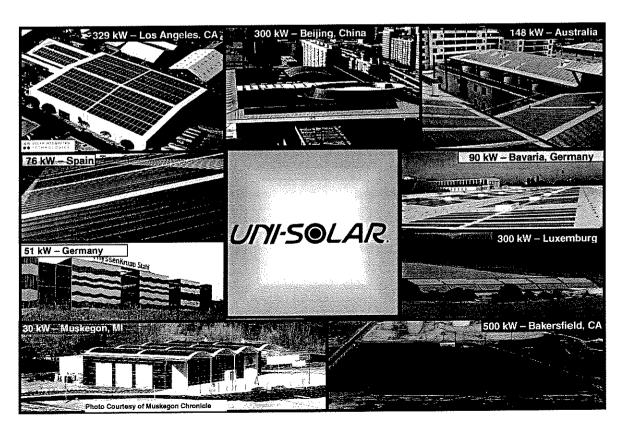
United Solar Ovonic plans to expand its production capacity to 300MW by 2010. Its existing 25MW plant (AH 1) is producing at full capacity. A second 25MW plant (AH 2) is under construction and is expected to be operational in the fall of 2006. The next expansion phase is a 50MW plant to be located in Greenville, Michigan, which is expected to be operational in calendar year 2007.

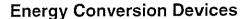
# **Unique PV Products**

United Solar Ovonic's products have proven themselves in various applications, including consumer, industrial, residential and commercial applications; off-grid and remote villages and grid-connected systems; and in military and space applications. The Ovonic™ multi-layer PV cells capture the broad solar spectrum more effectively, making it ideal in cloudy weather and shaded areas providing 20% more power than rated capacity.



The UNI-SOLAR® roofing products provide a solar electric solution that integrates with the aesthetic look of the building. They are thin, unobtrusive and easy to install while their durability and flexibility come from the laminates which are made with thin stainless steel and not glass. They are aesthetically pleasing and make superior roofs while generating clean solar electricity for home and commercial building consumptions.



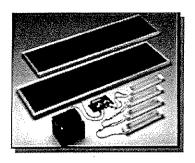




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United Solar Ovonic offers a complete line of advanced solar battery-charging products using its proprietary triple-junction, thin-film amorphous silicon cell design to achieve high performance standards.



↑ The UNI-KIT™ Solar Lighting Systems provide extended lighting hours and can power a 12-volt radio or television. r The UNI-PAC<sup>™</sup> portable 12-volt or 24-volt solar battery chargers are extremely rugged and are often used for field communications, emergency power and battery maintenance.

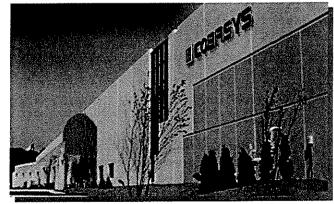


# Ovonic Nickel Metal Hydride Battery

### COBASYS

Cobasys, a 50-50 joint venture with Chevron Technology Ventures, was organized to bring

advanced NiMH battery solutions into widespread commercial production for transportation and stationary applications. Cobasys designs and manufactures advanced Nickel Metal Hydride (NiMH) battery system solutions for transportation markets, including Hybrid Electric Vehicles (HEV), Electric Vehicles (EV) and 42 volt applications, in addition to Stationary Back-Up power supply systems for Uninterruptible Power Supply (UPS), Telecom and Distributed Generation requirements. A 170,000 square foot state-



of-the-art integrated energy storage system production facility with automated manufacturing equipment has been established by Cobasys in Springboro, Ohio. The facility is ISO/TS 16949 and ISO 14001 certified and will be capable of producing two million battery modules annually at full capacity when fully equipped. Additionally, Cobasys' testing and calibration laboratory in Orion, Michigan, is registered to ISO 17025 industry quality requirements.

A key competitive advantage of Cobasys is that it is not just a battery supplier, but an integrated "plug and play" solution provider. The NiMH battery technology offers clear advantages over conventional batteries, such as lead acid and nickel cadmium (NiCd) batteries, due to its higher power, higher energy density and excellent cycle life. Additionally, they are maintenance-free and environmentally safe.

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Cobasys has been selected by General Motors to provide its advanced NiMHax® NiMH battery systems for the 2007 Saturn VUE Green Line SUV which will be made available to consumers in the summer of 2006.

# Telecom System Power Solutions

Cobasys also offers advanced stationary battery systems for telecommunications, uninterrupted power supply (UPS) systems and distributed generation applications and is now among an elite group of battery companies to have met the demanding standards for TL 9000 certification

which has become a prerequisite to supply major telecommunications

equipment and service providers.

NICOM.





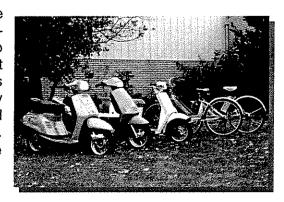


### **Ovonic Battery Company**

**Transportation Application.** Sanyo, the supplier of the NiMH cylindrical batteries to Ford Motor Company (Escape and Mariner HEVs) and Honda (Accord HEV), is a licensee of Ovonic Battery.

Rechargeable Portable Electronic Devices. Ovonic Battery Company first commercialized NiMH batteries in the late 1980s to replace NiCd batteries in consumer electronic applications. NiMH batteries are widely accepted in the marketplace because they provide over twice the energy and life of conventional lead-acid and NiCd rechargeable battery technologies, are maintenance free, environmentally friendly, and have no memory effect. In fact, an independent test identified rechargeable NiMH batteries as the preferred battery for digital cameras.

Electric Scooters and Bicycles. All of the advantages that have made NiMH batteries the technology of choice for passenger cars also apply to scooters. These applications are especially important because most scooters and three-wheeled vehicles operating on two-stroke engines are extremely polluting. Electric scooters and power-assisted bicycles offer a potential large-volume market. Scooters powered by Ovonic® NiMH batteries have won many awards and races.





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### **INFORMATION TECHNOLOGY**



# <sub>⊶</sub> Ovonic Unified Memory™

In the area of information technology, ECD Ovonics has developed a number of key proprietary products and processes in optical and electronic storage technologies. Ovonyx, Inc., ECD Ovonics' 39.5% owned venture with Tyler Lowrey, a recognized authority in semiconductor memory technology and the former vice chairman and chief technology officer of Micron Technology, Intel Capital and others, is developing electronic memory technology, Ovonic Unified Memory<sup>TM</sup> (OUM<sup>TM</sup>), also referred to as PRAM. Ovonyx is aggressively exploiting the technology for use in silicon chips to provide nonvolatile memory function, which will provide superior solutions for a wide variety of integrated circuit products.

The multi-functional OUM™ can replace two or three current memory products with a single device, but the most immediate opportunity for OUM™ is replacing Flash and DRAM memory, a popular type of nonvolatile memory, where OUM™ offers significant advantage of enormously improved cycle life, significantly reduced programming time, scalability, low power, low voltage, and lower manufacturing cost. Target products for OUM™ technology address large market segments and include such applications as Flash, DRAM, SRAM, embedded memory and radiation-hard applications.

OUM™ products are being commercialized through a number of licensing agreements and joint development programs. Licensees include Samsung, Intel, STMicroelectronics, BAE, Elpida and Nanochip.

- iPods
- Cellular telephones
- Smart Cards
- Digital cameras
- Markets Networking routers and data services
  - for Mobile wireless
    - Personal computers
- Ovonyx PDAs, digital audio players,
  - Field Programmable Logic, GPS
- **Products** Information appliances
  - Portable battery-powered data storage
  - Antennae and waveguide tuenrs
  - Automobile Engine controllers



Ovonyx is working with Intel, STMicroelectronics, Samsung and Elpida to replace conventional memories, such as Flash, DRAM and SRAM. Ovonyx is also working with BAE Systems to commercialize OUM™ memory for radiation-hard space and military applications. BAE has made public its plans to offer for sale the Ovonic™ memory and has published preliminary information spec sheets for a 512K x 8 radiation-hardened chalcogenide non-volatile RAM and a 128K x 8 radiation-hardened C-RAM E2PROM. The development of the products is sponsored by the Air Force Research Laboratory/VSSE and will utilize technology licensed from Ovonyx.



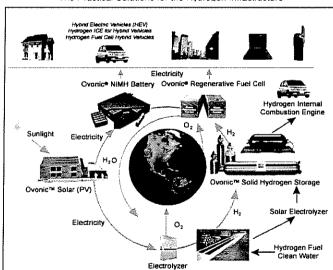


# Ovonic® Solid Hydrogen Storage Systems

Hydrogen, the ultimate fuel, contains no carbon and emits no climate-changing gases; it simply has the potential to be a zero pollution fuel. The Ovonic® solid hydrogen storage system is receiving attention because of its capability to safely store hydrogen in a solid state. With the Ovonic® solid hydrogen storage system, the hydrogen stored in the hydride material can be released quickly as fuel for both fuel cells and internal combustion engines. An Ovonic® hydrogen-powered mid-size automobile can achieve a range of over 300 miles before refueling.

ECD Ovonics' proprietary metal hydride hydrogen storage technology has the potential to overcome one of the key challenges to making fuel cells and other hydrogen-dependent energy sources practical, efficient and safe; it is a safe and far more effective hydrogen storage alternative to compressed hydrogen gas and liquid hydrogen storage. It can be used for portable and stationary fuel cells, as well as in portable generators, remote off-grid power generation, and

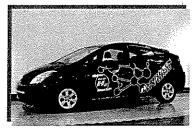
Ovonic® Solid Hydrogen Systems Make the Hydrogen Economy Possible The Practical Solutions for the Hydrogen Infrastructure uninterruptible power supply (UPS) systems.



Ovonic Hydrogen Systems offers an innovative storage tank and canister technology that uses breakthrough metal hydride technology to store and distribute ultra-clean hydrogen fuel in a stable, solid form. The solid hydrogen storage system is the safer, lower-pressure alternative to compressed gas and liquid hydrogen storage. The hydrogen storage technology can support a broad range of commercial applications from vehicles to power generation to appliances and consumer electronics. Coupled with fuel cell technology, an Ovonic® solid hydrogen storage device could provide enough fuel to power a laptop for a month

or a vehicle for hundreds of miles on a single charge. The scalability of this hydrogen storage system makes it the ultimate fuel solution for hydrogen dependent applications.

Ovonic Hydrogen Systems and its collaborators have successfully modified a Toyota *Prius*® (left photo below) to a commercial gasoline/electric hybrid vehicle to run on hydrogen utilizing its new low-pressure, metal hydride hydrogen storage system. A hybrid hydrogen vehicle with an Ovonic® metal hydride onboard hydrogen storage system demonstrates excellent potential for











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meeting both fuel cost and driving range targets established by the United States Department of Energy.

ECD Ovonics is also working with a local company in India, through a grant from the DOE, to convert internal combustion engine (ICE) 3-wheeled vehicles to run on clean hydrogen instead of polluting gasoline or diesel fuel.

ECD Ovonics recently completed a mobile hydrogen fueling station for the military (center photo on previous page) demonstrating the compact, safe features of metal hydride storage. The hydrogen fuel is rapidly transferred to the onboard storage tanks as a gas. Refueling times under 10 and approaching 5 minutes have been demonstrated.

# Ovonic® Metal Hydride Fuel Cell

The Ovonic fuel cell technology traces its roots to ECD Ovonics' early work in hydrogen. A fuel cell is an environmentally clean power generator, combining hydrogen with oxygen to produce electricity without combustion, with the only byproducts being water and heat. Fuel cells have large sales potential for portable power, distributed power generation and automotive propulsion.

The Ovonic® Metal Hydride Fuel Cell (MHFC) is a fundamentally new and patented approach that is low cost and provides unique performance advantages over conventional fuel cells. Special features of MHFC include instant

start, good low temperature performance, and built-in battery capacities for failsafe startup. The robust characteristics of the MHFC make it particularly well suited for Uninterruptible Power Supply (UPS)/emergency power applications. In addition, the MHFC can store regenerative brake energy for propulsion applications.

With its low-cost approach and unique performance advantages, the Ovonic® Metal Hydride Fuel Cell is suited for a wide variety of commercial applications such as:

- » Automotive fuel cells
- » Military applications
- » Scooters and motive power
- » Emergency and UPS power
- » Portable electronics
- » Stationary applications

For more information on the integrated *Ovonic* solutions, visit www.ovonic.com















# Legal Description of Property

The South 133 feet of Lot 33 and the North 142 feet of Lot 34, "Rochester Hills Executive Park", as recorded in Liber 199, Pages 26 – 30, Oakland County Public Records. Lying in the Southwest 1 / 4 of Section 29, and the Southeast 1 / 4 of Section 30, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan.

Containing 132,000 sq. ft. or 3.03 acres.

Also known as 2923 Technology Drive.