

Greater Nagoya — Environmental and New Energy Initiatives

■ Aichi-Rinku New Energy Research Area ■



Continuing the philosophy and achievement of the Aichi Expo 2005, Aichi-Rinku New Energy Research Area was established by Aichi Prefecture in February 2009 in order to develop and promote the growth of new energy industries in the Greater Nagoya region. At Aichi-Rinku New Energy Research Area, you can see a photovoltaic power generation system which was formerly installed at the Aichi Expo site as well as the NAS batteries made by NGK Insulators, Ltd. There are also seven demonstration studies being conducted on the premises, which are;

- (1) concentrating PV power plant (Daido Steel),
- (2) biomass-fueled stirling-engine power generation (Chubu Electric Power),
- (3) durability evaluation of residential fuel cells (Toho Gas),
- (4) noise reduction of wind turbines (Nikko),
- (5) charge-discharge control of built-in-battery wind power devices (Sinfonia Technology),
- (6) EV/PHV battery chargers (Sinfonia Technology),
- (7) PV power efficiency improvement system using water-retention ceramics (LIXIL).

Through these demonstration studies, Aichi-Rinku New Energy Research Area supports the environmental and new energy initiatives by corporations in Greater Nagoya.

■ Advanced Materials Innovation Center (AMIC) ■



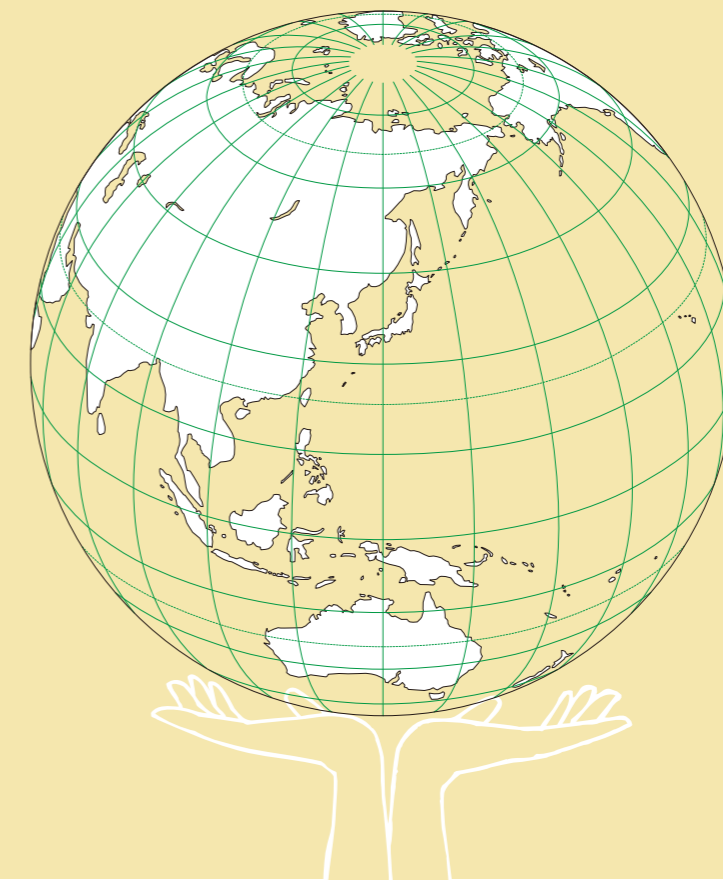
AMIC is a comprehensive facility promoting advanced materials which have excellent environmental and energy-saving characteristics. By facilitating cooperation within and beyond industry boundaries as well as collaboration amongst organizations of all sizes, AMIC offers three main services: research and development of cutting-edge materials, business solutions for small-to-medium-sized enterprises, and human resource development that supports "mono-zukuri", or the art of creative manufacturing.

In AMIC, industry and academia collaborate in research and development activities. Some examples include; research and development of new-generation all-solid-state flexible polymer lithium secondary cells and rare metal (cerium) alternative materials: material research for fuel cells and solar cells, and induction heating (IH) research. The center also conducts practical training programs for technicians, engineers, production managers, and other personnel who support the area of mechatronics in order to save energy and increase production efficiency on the "genba", or the production floor.

ECO-INDUSTRY CLUSTER



GREATER NAGOYA
INITIATIVE



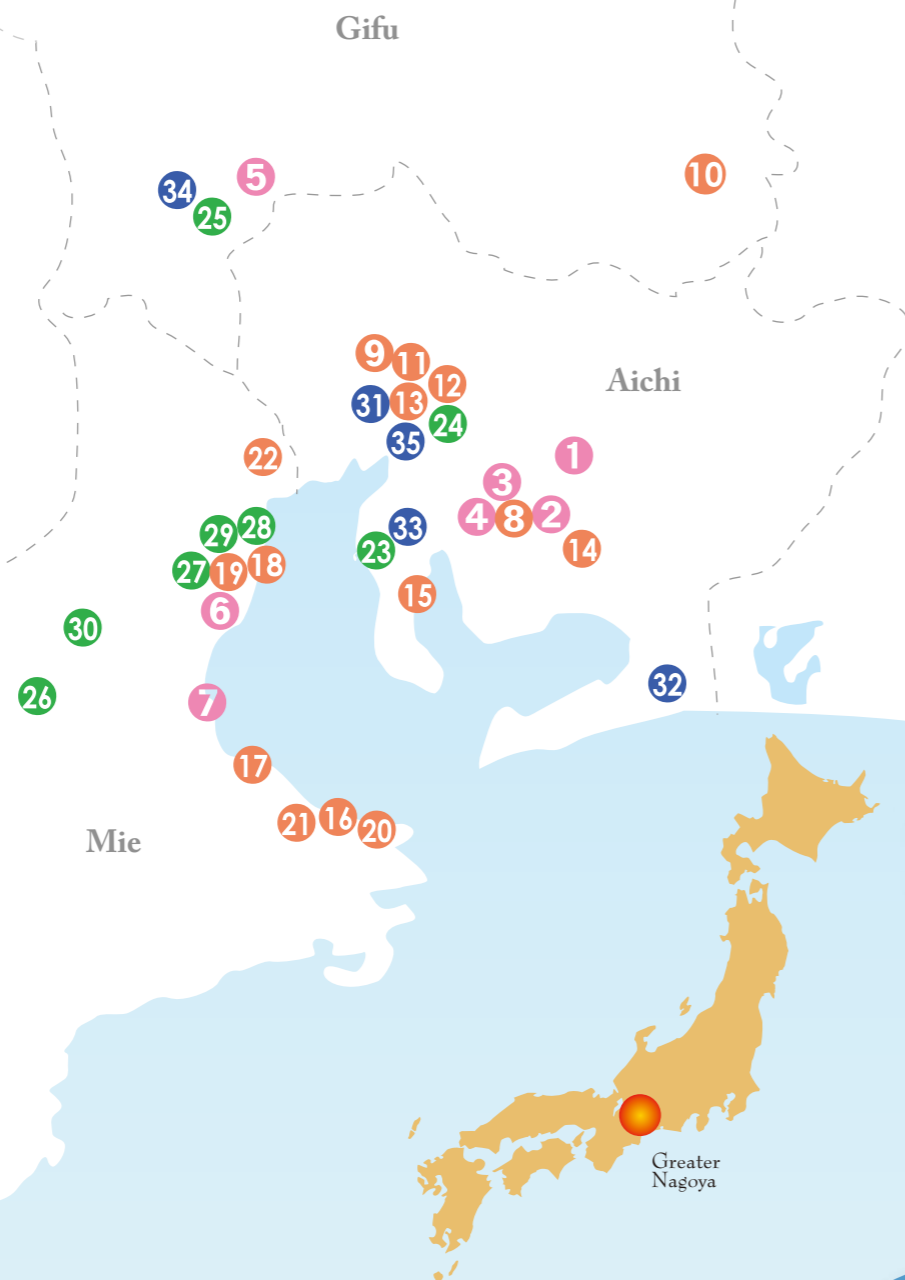
Greater Nagoya Initiatives Center

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Greater Nagoya Eco-Industry Map



- Automobile
- Alternative energy source
- Battery
- Others



Company	Location	Fields of environmental engineering
Automobile		
1 TOYOTA MOTOR CORPORATION	Aichi	Hybrid Car, Fuel Cell"
2 Mitsubishi Motors Corporation	Aichi	Electric Car
3 DENSO CORPORATION	Aichi	Biomass Fuel, Home Management System
4 TOYOTA INDUSTRIES CORPORATION	Aichi	Clean Diesel Engine
5 Triton EV Technology Co., Ltd.	Gifu	Electric car
6 Honda Motor Co., Ltd.	Mie	Hybrid Car
7 Panasonic Electric Works Co., Ltd.	Mie	Electric Car Charging outlets
Alternative energy source		
8 AISIN SEIKI CO., LTD.	Aichi	Gas Engine Cogeneration Unit
9 TOYODA GOSEI CO., LTD.	Aichi	Optoelectronics Products (Blue LED, etc.)
10 Mitsubishi Electric Corporation	Gifu	Photovoltaic Power Generation System
11 Daido Steel Co., Ltd.	Aichi	Photovoltaic Power Plant
12 CHUBU Electric Power Co., Inc.	Aichi	Generation Systems (PV, Wind, Biomass, etc.)
13 TOHO GAS Co., Ltd.	Aichi	HOME Fuel Cell
14 Nisshinbo Mechatronics Inc.	Aichi	Solar Cell and Module Production Facility
15 ASAHI GLASS CO., LTD.	Aichi	Solar Panel Cover Glass
16 KYOCERA Corporation	Mie	Solar Cell Module
17 Central Glass Co., Ltd.	Mie	Solar Panel Cover Glass
18 Mitsubishi Materials Corporation	Mie	Polycrystal Silicon
19 Evonik Monosilane Japan Co., Ltd.	Mie	Monosilane Gas
20 UL Japan, Inc.	Mie	PV Modules Testing and Verification
21 SINFONIA TECHNOLOGY CO., LTD.	Mie	Small Wind Turbine Generator
22 NTN Corporation	Mie	Wind Power Generator Bearing
Battery		
23 ENAX, INC.	Aichi	Lithium-Ion Battery
24 NGK INSULATORS, LTD.	Aichi	NAS Battery
25 SANYO Electric Co., Ltd. Advanced Photovoltaics Development Center	Gifu	Thin-Film Solar Cell
26 Shin-Kobe Electric Machinery Co., Ltd.	Mie	Lithium-Ion Battery
27 JSR Corporation	Mie	Lithium Ion Capacitor (Research)
28 BASF Japan Ltd.	Mie	Fuel Cell (Research)
29 Mitsubishi Chemical Corporation	Mie	Lithium-Ion Battery Electrolyte
30 JAPAN FINE PRODUCTS	Mie	Specialty Gases for Solar Cell Fabrication
Others		
31 Toyota Tsusho Corporation	Aichi	Rare Metal Recycling
32 HONDA ELECTRONICS	Aichi	Ultrasonic Washers
33 KUNO Kinzoku Industry Corporation	Aichi	Lithium Ion Battery Case for Electric Car
34 IBIDEN CO., LTD.	Gifu	Diesel Particulate Filter
35 TORAY INDUSTRIES, INC. ACC	Aichi	Carbon Fiber Composite Material