

DENSO

Crafting the Core

Corporate Profile

(April-2019)





Profile

Established	December 16, 1949	
Capital	187.5 billion yen	
Revenue	Consolidated basis	5,362.8 billion yen (US\$48.3 billion)
Operating Profit	Consolidated basis	316.2 billion yen (US\$2.8 billion)
Employees	Consolidated basis	171,992
	Non-consolidated basis	45,304
Consolidated Subsidiaries	211 (Domestic 70, Overseas 141)	
Affiliates under the Equity Method	71 (Domestic 22, Overseas 49)	

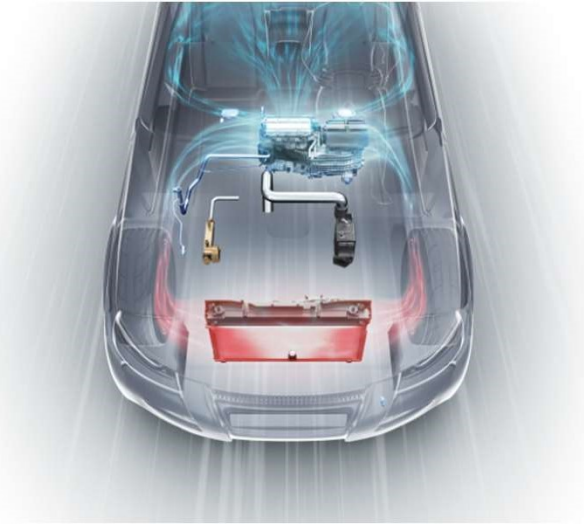
Notes : U.S.dollar amounts have been translated, for convenience only, at the rate of 110.99 yen = US\$1, the approximate exchange rate prevailing on March 31, 2019. Billion is used in the American sense of one thousand million. as of March 31, 2019

History of DENSO

- 1949 Establishment of Nippondenso Co., Ltd. (currently DENSO CORPORATION)
- 1953 Technical cooperation with Robert Bosch GmbH of Germany is started
- 1954 Establishment of technician training center
- 1956 Establish mission statement on which DENSO is founded
- 1961 Receives the Deming Prize
- 1966 Establishment of first overseas sales / service office in Chicago
- 1968 Establishment of IC Research Center
- 1971 Establishment of first overseas subsidiary company near Los Angeles Begins shipment of products to European automotive manufacturers
- 1972 Establishment of first overseas manufacturing companies in Australia and Thailand
Establishment of Nippondenso Canada Inc.

- 1977 DENSO employee wins the Gold Medal in the WorldSkills Competition for the first time
- 1984 Opens Nukata Proving Ground
- 1985 Establishment of Nippondenso America, Inc. (currently DENSO INTERNATIONAL AMERICA, INC.)
- 1994 Establishment of the DENSO Philosophy
- Develop QR code technology
- 1996 Renames company DENSO CORPORATION
- 2005 Establishment of first overseas regional training center in Thailand
- 2016 DENSO ECO VISION 2025
- 2017 Development of DENSO's Long-term Policy 2030

Main products : Automotive Fields 1



Thermal Systems

Air-Conditioning Systems for Cars and Buses, Truck Refrigeration Units, Related Air-Conditioning Products, Radiators, and Cooling Systems.



Powertrain Systems

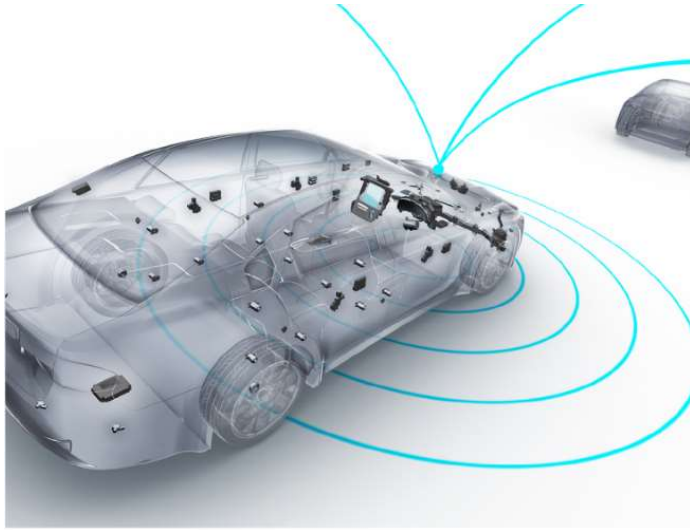
Engine-Related Products, such as Gasoline/Diesel Engine Control Systems and Fuel Pumps, Variable Valve Timing-Related Products, and Sensors, in Addition to Products for Drive Systems, such as Oil Pressure Control Valves.



Electrification Systems

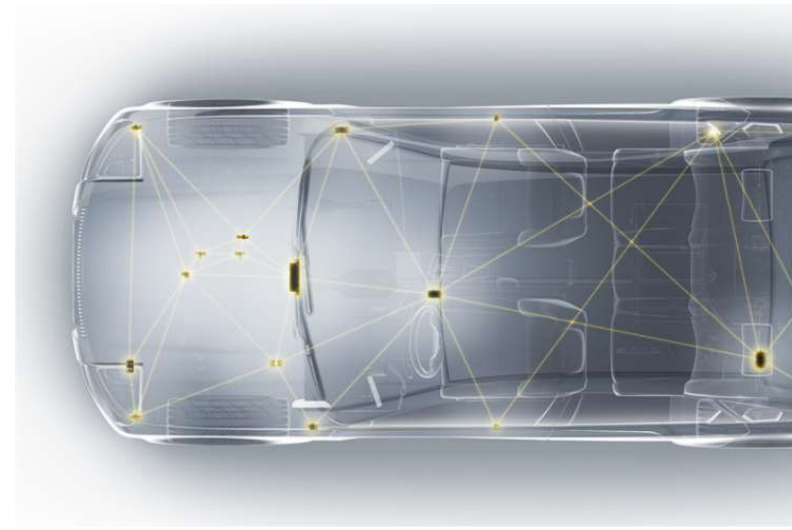
Electrification Systems and Components for EV and Hybrid Vehicles. Electric Power Supply and Starting System Components such as Alternator and Starter. Motors, such as Wiper Systems, Power Window, Air Conditioner.

Main products : Automotive Fields 2



Mobility Systems

AD & ADAS Products such as Millimeter-Wave Radars, Image Sensors, Driver Status Monitors and Airbag Systems, and Connected & Cockpit Products such as Telematics Control Units and Vehicle to Vehicle / Vehicle to Infrastructure Communication Devices, Head-Up Displays, Meters, Cockpit Systems.



Electronic Systems

Microelectronic Devices such as Automotive ICs and Semiconductor Sensors, Electronics Products such as Engine Control Computers and Body Control Computers.

Main products : Non-Automotive Fields

Factory Automation



Automated Modules



Vertical Articulated Robot



QR Solution Services

Agriculture



Environmental Control Systems for Greenhouse Cultivation



Equipment for Maintaining Freshness

Industry/Home



Spot Cooler

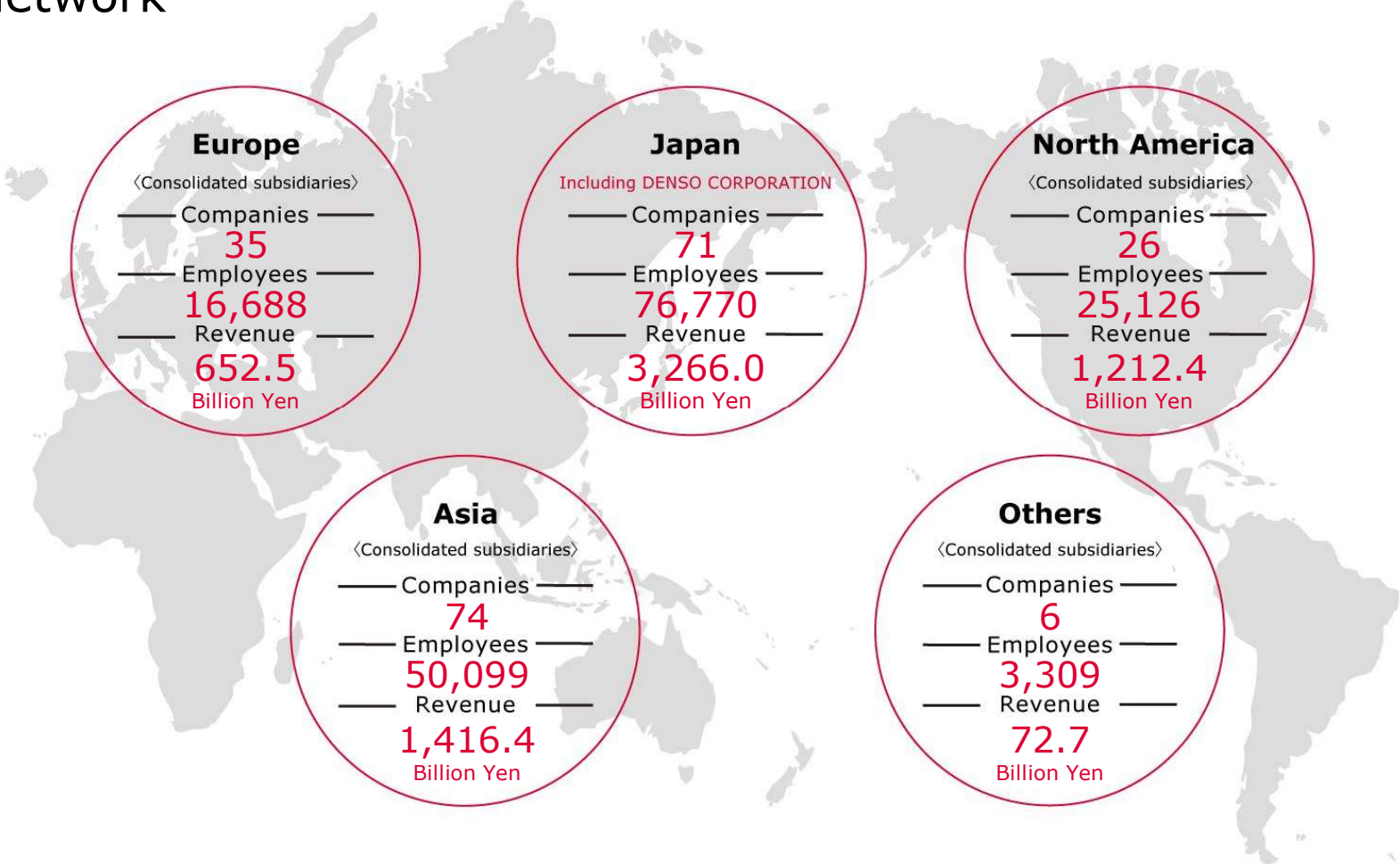


HEMS (Home Energy Management System)



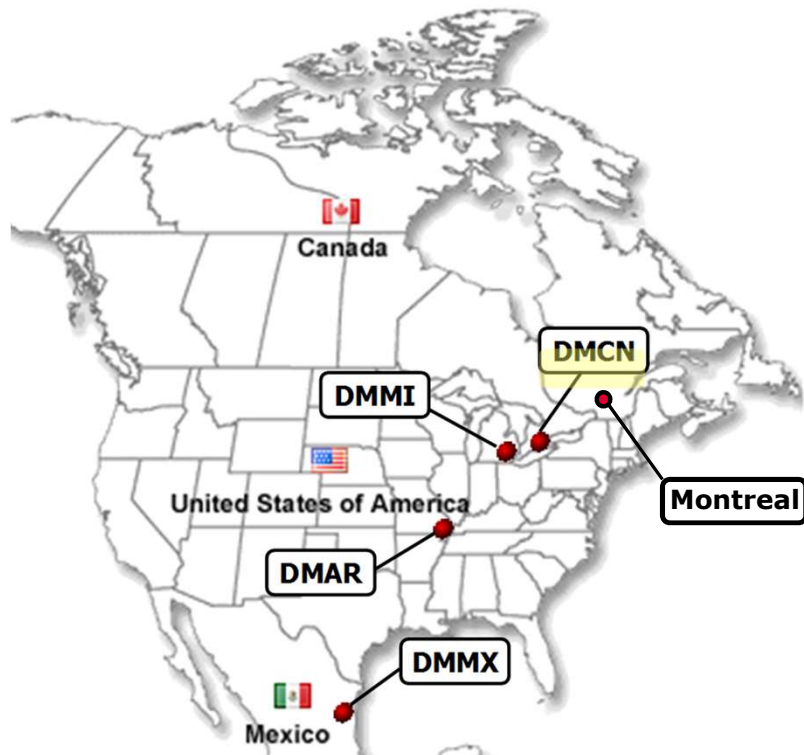
CO² Heat Pump Hot Water Supply System

Global Network



as of March 31, 2019

Ref.. DENSO Operations in Canada - Manufacturing



**Thermal Group in North America
(TAC = Thermal America Centre)**



900 Southgate Drive
Guelph, Ontario N1L 1K1

DMCN Information

Established: January 1998

Start of Manuf.: March 1999

Facilities:

43 acres, 326,000 square feet of floor space

Employees : 620

Certifications

ISO/TS 16949: 2009 (January 11, 2010)

ISO 14001: 2004 certified (October 20, 2008)

OHSAS 18001:2007 certified (April 21, 2010)

2007 Canadian National Quality Institute Level One
Quality Award

August - Japan Canada Festival 2018

Canada's largest Japanese Festival
(Mississauga Celebration Square).

DSCN's 2nd time to hold a demonstration tent at this festival.

Gold Sponsor since inception of the festival in 2016.

This year's main theme was "Kids Safety" with the support from Safe Kids-Parachute and DENSO North America External Affairs.

Event was organized and supported by DSCN Associates.



Self-Introduction

Hiroaki Tanaka, Ph.D. (Ergonomics, Anshin:安心)

Senior Vice President of DENSO International America, Inc. (DIAM)
Top of Silicon Valley Innovation Center

1977 Nippondenso (currently DENSO)

Pressure sensor.....Electric trimming Method
CPU.....32Bit RISC for Cluster Meter Control



•1991 Research Laboratory

Neuro Air Conditioner Control Method
CPU.....32Bit RISC for Air Bag System, Engine Signal Processing.

•2006 Electric Body Product Div.

Air Conditioning ECU, Panel
Haptic Device (Remote Control Device)



•2010 DP-Smart HMI

Vehicle Cockpit System



•2012 Authorized a Certificated Engineer (Ergonomics) by DENSO

•2018 DIAM, Silicon Valley Innovation Center

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