



## Carbon Reduction Technology Promotion Program Partially Subsidized by Japanese Government



# The Program on Productivity Improvement for Dong Nai Province, Vietnam [VNPI]

-Energy conservation through productivity enhancement as well as  
the improvement of operation practices in production lines-

**【Course Features】** ※All the lectures/visits will be conducted in Vietnamese.

Learn about the 3 approaches (productivity improvement, operational improvement, and facility improvement) and specific techniques to conserve energy in the production process in the automobile, industrial machinery and electrical machinery fields and aim at realizing energy-saving in the production sites in your own companies.

### Three approaches to conserve energy in the production process

Productivity Improvement	Operational Improvement	Facility Improvement (Introduction of high-performance equipment)
<ul style="list-style-type: none"> <li>3 "MU" reduction (<i>Muda, Mura, and Muri</i>)</li> <li>5S, <i>Gemba Kaizen</i></li> <li>Visual management</li> <li>Operational improvement and cost reduction by IE</li> <li>Reduction of failures and quality improvement</li> <li>Reduction of cycle time</li> <li>Just-in-time, etc.</li> </ul>	<ul style="list-style-type: none"> <li>Energy conservation measures for               <ul style="list-style-type: none"> <li>A) Power receiving and distribution equipment and contract demand reduction</li> <li>B) Air conditioning and lighting</li> <li>C) Pumps and fans</li> <li>D) Air compressors, and boilers</li> </ul> </li> <li>Optimization of capacity, operation and number of units of production equipment, etc.</li> </ul>	<ul style="list-style-type: none"> <li>Solar panels</li> <li>High-performance boilers</li> <li>Gas turbine cogeneration system</li> <li>Air conditioners equipped with invertors</li> <li>Industrial heat pumps</li> <li>High-performance air compressors</li> <li>Electric power meters and demand monitors, etc.</li> </ul>
<div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;">           Visualization and analysis of data, promotion of efficiency and optimization by utilization of IT, IoT etc.         </div>		

**Date :** 2 – 13 March 2020 (2 weeks)

**Venue :** AOTS Kansai Kenshu Center (Osaka, Japan)

**Target :** Senior managers, middle managers and engineers who are working for companies in the automobile, industrial machinery and electrical machinery fields (three businesses) or companies supplying to the companies in the three businesses around Dong Nai Province of Vietnam. They should be controlling or in charge of manufacturing lines of products in the three businesses or products aimed at the three businesses.

**Deadline:** **6 January 2020 (Mon)**

## Contact Information

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## Schedule (Tentative)

**\*All the lectures/visits will be conducted in Vietnamese.**

Date	Morning Session	Afternoon Session
1 Mar. (Sun)	(Arrival in Japan)	
2 (Mon)	Opening Ceremony / Orientation 【Lecture】 Low Carbon Society and Challenge by Japanese Companies	【Lecture】 Effective Ways of Promoting Productivity Improvement and <i>Kaizen</i> Activity -Focusing on 3S-
3 (Tue)	【Lecture and exercise】 Productivity Improvement through <i>KAIZEN</i> and Waste Elimination (1)	
4 (Wed)	【Visit】 Case Study of 5S Activities at Production Sites	【Visit】 Case Study of <i>KAIZEN</i> (Improvement) Activity at Production Sites (1)
5 (Thu)	【Lecture and exercise】 Productivity Improvement through <i>KAIZEN</i> and Waste Elimination (2)	
6 (Fri)	【Lecture】 Energy-Saving Activities at Production Sites (1)	
7 (Sat)	Day Off	
8 (Sun)	Day Off	
9 (Mon)	【Lecture】 Energy-Saving Activities at Production Sites (2)	【Visit】 Case Study of Energy Conservation at Production Sites (1)
10 (Tue)	【Visit】 Case Study of <i>KAIZEN</i> (Improvement) Activity at Production Sites (2)	【Visit】 Case Study of Energy Conservation at Production Sites (2)
11 (Wed)	【Lecture】 IoT Utilization at Production Sites	
12 (Thu)	【Visit】 Case Study of Innovative Production Management using IT	Preparation for Presentation
13 (Fri)	Final Report Presentation: Action Plan on Productivity Improvement & Energy Conservation / Closing Ceremony	
14 (Sat)	(Departure from Japan)	

### AOTS Kansai Kenshu Center

7-5, Asaka 1-chome,  
Sumiyoshi-ku, Osaka  
558-0021, Japan

