

PTTGC OPEN INNOVATION CHALLENGE 2016



First-of-its-kind challenge for innovators to co-develop lab-to-market projects in Thailand's petrochemical industry. PTTGC invites participants to submit idea proposals for Smart-Eco Innovation in product or process development. Your initiatives must lead to commercializable application; meanwhile it must be ecologically sustainable.

PTTGC's mission is to create chemistry innovation for a healthy and sustainable future.

Objectives:

- To promote and accelerate R&D Commercialization in scientific community specifically in "Smart Eco-Innovation" area
- To strengthen and foster innovator's capabilities including collaboration opportunity with industry, infrastructure and financial challenges

Target Applicants:

- Innovators from academia, research institutes, and start-ups are all welcome.

Proposal Requirements & Submission

- Applicants must download application form at www.pttgcgroup.com/en/openinnovation/innovation-challenge
- Applicants are required to submit a filled OIC-01: application form together with a filled OIC-02 idea proposal form in English in Microsoft Word/PDF format at Open-Innovation@pttgcgroup.com by February 15, 2017, 11:59 pm.

We offer opportunities on multiple levels:

- Innovate and implement for industry needs
- Be awarded cash prize together with additional research fund and share benefit
- Join a workshop and leverage state-of-the-art facilities
- Accelerate your research to commercialization
 - Product launch and distribution in worldwide customer reach
 - Marketing/ technical support

Responding to this challenge

By submitting a response, respondents agree to PTTGC's Official Rules for this Challenge and all of the following submission requirements, including confidentiality, selection, and the review processes:

Respondents agree to the submission terms described in the response template.

Confidentiality

Respondents confirm that their submissions do not contain any confidential information.


Selection/Review Process

Respondents acknowledge that PTTGC reserves the sole and absolute right and discretion to award prizes as stated in the challenge.



For more information :

Please visit www.pttgcgroup.com/en/openinnovation/innovation-challenge

 PTTGC Open Innovation Challenge



Win Royal Trophies of
HRH Princess Maha Chakri Sirindhorn

Extended Deadline!
15.02.2017

PTTGC OPEN INNOVATION CHALLENGE 2016



Smart-Eco
Products



Smart-Eco
Plants



Circular
Thinking

"Innovative ideas to co-create a sustainable future"

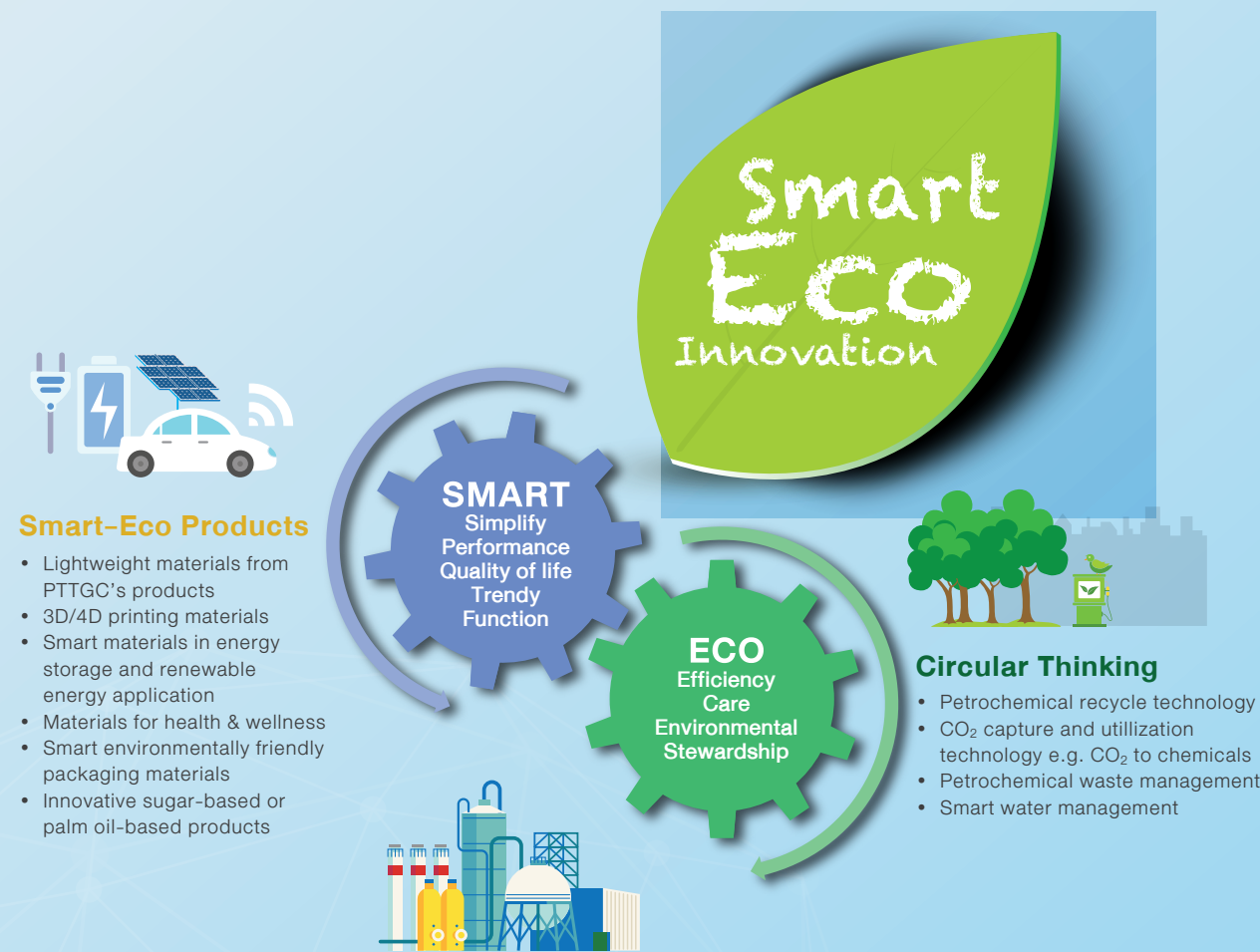


Open Innovation
Challenge 2016

Research Areas:

“Smart Eco-Innovation” is the product and/or process development contributing to sustainable development and applying the commercial application of knowledge to elicit direct or indirect ecological improvements.

This includes a range of various related ideas, from environmentally friendly technological advances to socially acceptable innovative paths towards sustainability. PTTGC Open Innovation Challenge categorizes into 3 domains: smart-eco products, smart-eco plants, and circular thinking. Please visit <http://www.pttgcgroup.com/en/openinnovation/innovation-challenge> for more description of each research topic.



Smart-Eco Products

- Lightweight materials from PTTGC's products
- 3D/4D printing materials
- Smart materials in energy storage and renewable energy application
- Materials for health & wellness
- Smart environmentally friendly packaging materials
- Innovative sugar-based or palm oil-based products

Smart-Eco Plants

- Novel adsorbents for toxic gas/ heavy metal
- Novel polyolefin catalysts
- Microchannel technology for petrochemical process
- Smart equipment & tools for petrochemical process
- Smart maintenance technology
- PTTGC's by-product upgrading
- Innovative process from sugar-based resources

Circular Thinking

- Petrochemical recycle technology
- CO₂ capture and utilization technology e.g. CO₂ to chemicals
- Petrochemical waste management
- Smart water management

Screening Process:

All idea proposals will be evaluated by PTTGC management for their novelty of idea & technical feasibility, economic and environmental impact, business fit, and clarity & team profile at the first screening. Up to 10 teams will be selected as finalists to present their proposal to a panel of external honorary judges.



Award & Opportunity:

- The winner of each category - Smart-Eco Products, Smart-Eco Plants, and Circular Thinking - will receive the Royal Trophy of HRH Princess Maha Chakri Sirindhorn and 500,000-baht prize.
- The finalists (who are not the winners) will receive a 50,000-baht prize after pitching round.
- If applicable, all finalists can be offered the opportunity to co-create lab-to-market projects with PTTGC.

A Panel of External Honorary Judge:



- **Khunying Thongtip Ratanarat**
Member of PTIT Foundation Board & Council of Trustees and Independent Consultant in Oil, Gas and Petrochemical Business
Board Director of Princess Chulabhorn Research Foundation
Member of Panel of Judges for Platt's Global Energy Awards



- **Dr. Young-ok Ahn**
Consultant and Research Fellow of Institute of Nano Science and Technology at Hanyang University
Former Chief Technology Officer of Samsung Group



- **Dr. Kitipong Promwong**
Deputy Secretary General of National Science Technology and Innovation Policy Office



- **Dr. Teeradetch Tungsubutra**
Executive Vice President of PTT Research & Technology Institute, PTT



- **Dr. Chaya Chandavasu**
Senior Vice President of Science & Innovation, PTTGC

Appropriate Responses:

All qualified idea proposal submissions will be evaluated for their novelty, economic and environmental impact, business fit, and clarity & team profile. Up to 10 teams will be selected as finalists to present their proposal to a panel of external honorary judges for an opportunity to collaborate with PTTGC. Successful idea proposal submissions should include:

- To meet challenge in “Smart Eco-Innovation”
- To demonstrate novelty and originality
- To Indicate technical feasibility and PTTGC business fit
- To create economic and environmental impact by the potential application

More information regarding idea proposal submission, please refer to form OIC-02.

Timeline:

