



Knowledge  
Sharing  
Platform



[About ESCI](#) [Search](#) [Submit a project](#) [Register](#) [Sign In](#)

# Energy Smart Communities Initiative

## Knowledge Sharing Platform

Presented to the APEC Energy Working Group

March 19, 2013

Dr. Eugenie Birch, Co-Director, Penn IUR  
Alon Abramson, Project Manager, Penn IUR



## Purposes

- ✓ Help APEC economies meet energy intensity reduction goals of 45% by 2030 from 2005 levels through exchange of **best practices, research and development of new products, demonstration projects and metrics**
- ✓ Foster the growth of **communities of practice**: networks of individuals with common interests and goals
- ✓ **Provide information to the public** about smart transport, buildings, grids jobs and low carbon model towns

ESCI Official Logo



Knowledge Sharing Platform

Main site navigation links



Energy Working Group

APEC EWG Logo

About ESCI | Contacts | Search | Submit a Project | Register | Sign in

Pillar and task navigation built into header



Smart Transport



Smart Buildings



Smart Grids



Smart Jobs



Low Carbon Model Towns

Welcome to the ESCI's Knowledge Sharing Platform. Browse and share case studies, best practices and innovations in the field of smart energy from the partners in the Asia-Pacific Economic Cooperative.

[Read More About ESCI >](#)

APEC Meeting of Finance Ministers

Slideshow informs users of recent events and news and ties in APEC.org brand recognition

Featured content ties together all ESCI pillars and gives visitors a 'snapshot' of what ESCI is all about

### Featured Projects



smart for two Electric Drive Vehicle  
 Smart Transportation: Electric Vehicle Demonstrations  
 Non-APEC Economy

smart is producer of one of the world's most economical and environmentally friendly cars: the sma...



Microgrid: Exploring Business Scenario Models for APEC Economies  
 Smart Grids: Interoperability Survey and Road Map  
 Russia

In December 2011, APEC Budget and Management Committee approved a project proposal under

### Featured Interview



Sam Schwartz Engineering

Penn Institute for Urban Research talks with Sam Schwartz of Sam Schwartz Engineering (SSE). SSE focuses on transportation challenges in urban environments, where density makes open space a premium.

Action  
Network  
Coordinators



Low Carbon Model Towns



25

47

26

29

The screenshot shows the ESCI-KSP website interface. At the top, there are logos for the Energy Smart Communities Initiative and the Knowledge Sharing Platform, along with the APEC Energy Working Group logo. A navigation menu includes links for 'About ESCI', 'Contacts', 'Search', 'Submit a Project', and 'Welcome, alon Log Out'. The main content area is titled 'Energy Efficient Urban Transport Network' and features a 'Select a Task' dropdown menu. Below this, there are tabs for 'Projects', 'Interviews', 'Events', and 'Publications'. A text block describes the APEC Smart Transport Energy Efficient Urban Transport Network effort (ST-1), mentioning its establishment under the ESCI and its launch by Japanese Prime Minister Kan and U.S. President Obama. To the right of the text are three action buttons: 'Contact Task Leaders', 'Submit a Project', and 'Download Press Kit'. Below the text is a 'Read More' link. The 'Sub-tasks' section is divided into three categories: 'ST-1.1 Energy-Efficient Vehicles', 'ST-1.2 Transit-Oriented Development', and 'ST-1.3 Bus Rapid Transit (BRT)'. Each category has a circular icon and a brief description of the projects included. The 'Featured Interview' section features a photo of Michael Replogle, co-founder of the Institute of Transportation and Development Policy, and a link to 'View All Interviews'. The 'Recent Events' section lists two events: 'Energy Working Group 45th Meeting' and 'Clean Energy Ministerial 3 (CEM3)'.

Navigate to other tasks from any part of the site

Contact information easily accessible

Users can submit their own content

Projects are grouped into folders of sub-tasks

Featured Interview

Recent and upcoming events listing. References listed below

Projects may be case studies, products, policies, etc.

Projects can be sorted by task, economy, tags, and key words

The screenshot shows a project page on the ESCI-KSP platform. At the top, there are logos for the Energy Smart Communities Initiative and the Knowledge Sharing Platform, along with the APEC Energy Working Group logo. Navigation links include 'About ESCI', 'Contacts', 'Search', 'Submit a Project', and user options 'Welcome, alon' and 'Log Out'. The main header identifies the project as 'ST-1.1 Energy-Efficient Vehicles' under the category 'Smart Transportation - Energy Efficient Urban Transport Network'. A dropdown menu for 'Select a Task' is visible. Below the header, there are tabs for 'Projects', 'Interviews', 'Events', and 'Publications'. The main content area features the title 'Ames Transit Agency Hybrid Buses in Iowa' with a 'Share this page' button. The text describes the project's goal to replace 100 diesel buses with hybrid electric systems, funded by a TIGGER grant. It includes an image of the buses and a sidebar with key metrics: CO2 Reduction of 144 metric tons per year and Diesel Displaced of 14,890 gallon equivalents per year. A 'Download Project Files' button is also present. A 'Related Projects' section lists other initiatives like 'Flint MTA Fuel Cell Bus in Michigan' and 'AC Transit HyRoad'. The footer contains logos for Penn IUR and the Taiwan Institute of Economic Research.

Metrics allow users to easily compare projects

Project files and links are shown

Registered users can submit new projects

**Submit Your Project**

ST-4: ELECTRIC VEHICLE DEMONSTRATIONS

**Name of Electric Vehicle Technology \***

**APEC Economy \***

- Australia
- Brunei
- Canada
- Chile
- China
- Chinese Taipei
- Hong Kong
- Indonesia
- Japan
- Korea
- Malaysia
- Mexico
- New Zealand
- Non-APEC Economy
- Papua New Guinea
- Peru
- Philippines
- Russia
- Singapore
- Thailand
- United States
- Viet Nam

**Managing Organization \***

Please enter the name of the responsible organization.

**Overview of the Electric Vehicle Technology \***

Visual HTML

**B I** [Rich text editor icons]

Private sector members are encouraged to contribute and share their publicly available research and innovations

# “Taking Stock” One Year Out



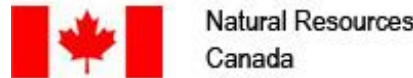
ALLIANCE TO SAVE ENERGY  
Creating an Energy-Efficient World



에너지경제연구원  
KOREA ENERGY ECONOMICS INSTITUTE



Accelerating the Transition to Clean Energy Technologies



Your logo here



or here





# ESCI- KSP Content Inventory

Pillar	Tasks	# Subtasks	# Economies Represented	# Projects	# Publications
Smart Transport	ST-1 Energy Efficient Urban Transport Network	9	14	112	40
	ST-2 Energy Efficient Freight Transport Network	4	4	6	11
	ST-3 Electromobility Survey and Road Map	2	6	10	9
	ST-4 Electric Vehicle Demonstrations	3	3	26	8
Smart Buildings	SB-1 Low Energy Buildings Network	3	16	53	7
	SB-2 Materials Testing and Rating Centers	1	2	2	2
	SB-3 Cool Roof Demonstrations	3	6	10	7
	SB-4 Low Energy Window Demonstrations	2	2	4	3
Smart Grid	SG-1 Interoperability Survey and Road Map	8	10	26	18
	SG-2 Smart Grid Test Bed Network	1	2	17	2
Smart Jobs	SJ-1 Energy Efficiency Training Curricula	2	2	4	0
	SJ-2 Energy Efficiency School Curricula	2	3	5	0
	SJ-3 Sister Schools Program	1	5	3	0
Low Carbon Model Towns	LCMT Low Carbon Model Towns		6	7	10

18 economies

Nearly 300 entries



Knowledge  
Sharing  
Platform



## ESCI-Knowledge Sharing Platform

# USER GUIDE

<http://www.esci-ksp.org>

[info@esci-ksp.org](mailto:info@esci-ksp.org)

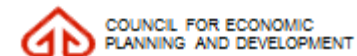
*Produced by*



&



*With support from*



# “Taking Stock” One Year Out

HOME ABOUT PROGRAMS GREEN GROWTH IN ACTION COMMUNITY CONTACT

## Knowledge for green growth

The Green Growth Knowledge Platform is a global network of researchers and development experts that identifies and addresses major knowledge gaps in green growth theory and practice. Through widespread consultation and world-class research, GGKP provides practitioners and policymakers with better tools to foster economic growth and implement sustainable development.



GGKP comprises three Research Programs and two Affiliated Programs. [more](#)



GGKP has a number of Knowledge Partners. To learn more about them and how you can get involved, visit our [partners page](#).



From conference [Microsoft Outlook](#) and projects,



Several GGKP partners have already issued major reports

### The GGKP wants to hear from you

The GGKP is developing its web platform and is looking for your input. Please take our survey to give us your opinion and help us design a green growth web platform that will meet your needs!

### GGKP Knowledge Update

Read the new issue of the GGKP's Knowledge Update for the latest on green growth research, tools, initiatives and events. Click here to join our mailing list.

### 2013 GGKP Conference

The 2nd Annual GGKP Conference will take place April 4-5, 2013 in Paris, France. Visit our conference page for more information.

### Join the conversation!

ABOUT THE DIGEST NEWSROOM RESOURCE LIBRARY THE HUBLOG

MARKET INFORMATION MODELING RETROFIT STRATEGY WORKSPACE

## WELCOME TO THE EEB HUB RESEARCH DIGEST

Share This New FEEDBACK

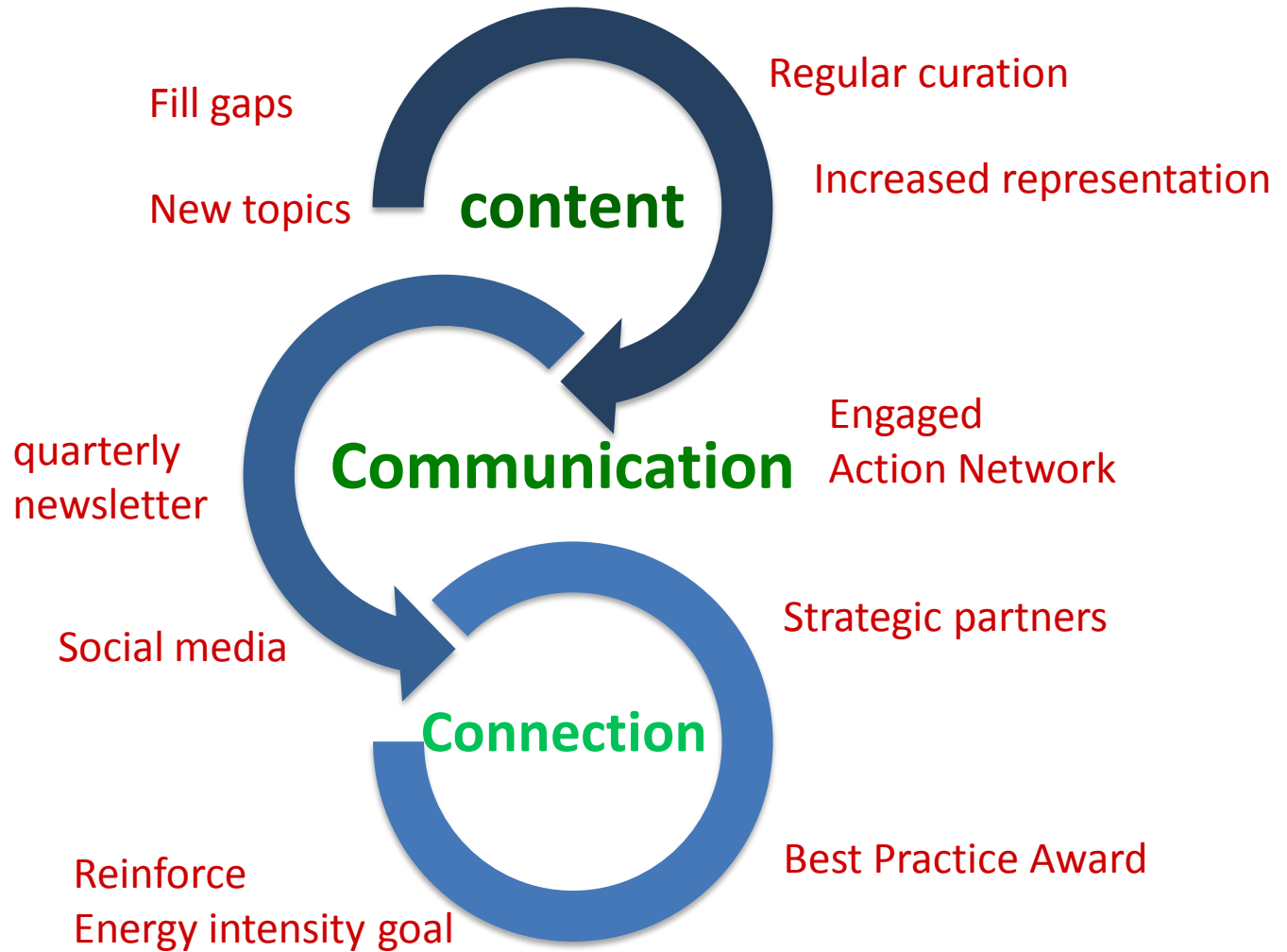
The Research Digest is your source for in-depth reporting on the EEB Hub's research and programs to achieve its stated goal of

# 20% REDUCTION IN ENERGY USAGE BY COMMERCIAL BUILDINGS IN THE PHILADELPHIA REGION BY 2020.

Global Green Growth Initiative, OECD, World Bank and UNEP

U.S. Department of Energy Innovation Cluster: University, Public and Private Sector Partnership

# Next Steps



## Thank You

### For more information

#### **Dr. Eugenie Birch**

Co-Director and Professor  
Penn Institute for Urban Research  
[elbirch@upenn.edu](mailto:elbirch@upenn.edu)

#### **Alon Abramson**

Project Manager, Penn IUR  
[alonabra@upenn.edu](mailto:alonabra@upenn.edu)

#### **Dr. Feng-Shuo Yang**

Director, Division V  
Taiwan Institute for Economic  
Research (TIER)  
[d3861@tier.org.tw](mailto:d3861@tier.org.tw)

#### **Dr. Trevor Wu**

Associate, Research Fellow, TIER  
[d31789@tier.org.tw](mailto:d31789@tier.org.tw)

<http://www.esci-ksp.org>