U.S. - China Clean Energy Research Center
中美清洁能源研究中心

CERC and IP:

Innovation through Collaboration

8th Steering Committee Meeting
U.S.-China Clean Energy Research Center
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Huazhong University of Science and Technology

中美清洁能源论坛
US-CHINA Clean Energy Forum

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Content

I Achievements in CERC 1.0

II CERC 2.0 Work Plan

I Achievements in CERC 1.0

- Execute and implement CERC IP TMPs
- Help CERC Participants understand US and China IP law/practice
- IP management is part of the CERC “DNA”

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Our Approach

- Joint, Bilingual creation of Novel *IP* ***Technology Management Plans***
- ***Annotated TMP***: A bilingual key to understanding the TMPs
- **Trainings** and **Workshops** in China and the US
- **CERC IP Experts Group** established
- **CERC IP Websites** (CERC “IP” Section and CEF’s ***IPKnowledge.org*** website)

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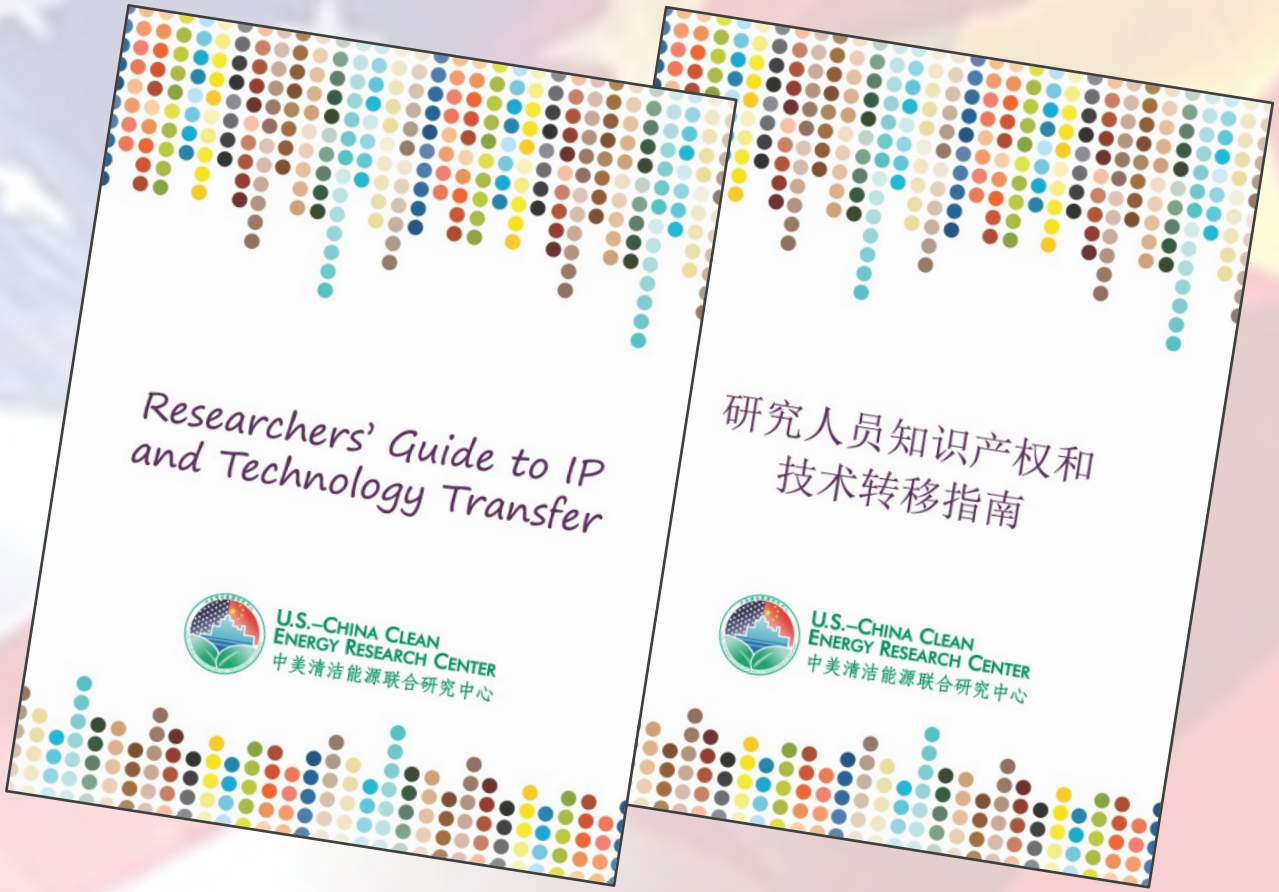
CERC Researchers' Guide to IP & Tech Transfer



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DOE-CERC Webcast - *"Intellectual Property Challenges and Opportunity: Bringing your Business into China" - July 20, 2015*

Importance of IP to Clean Energy Deployment

IP in China

CERC: A new cooperative model

A Business Perspective

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HUST-CERC IP Training

November 16-17, 2015, Huazhong University of Science and Technology (HUST) Wuhan, China

CERC IP Framework, Patenting, Patent Strategy and Licensing, Patent Information Utilization

COUNSELOR CAI JIANING,
CHINA CERC DIRECTOR, MOST

JOSEPH ZADROZNY
U.S. CONSUL GENERAL IN WUHAN

IP Accomplishments: Inventions

Table 1. Project IP Invention Disclosures, Patent Applications, and Grants[a]

	ACTC		BEE		CVC		Total	
	US	China	US	China	US	China	US	China
Invention Disclosures	2	--	--	--	11	--	13	--
TOTAL Patent Applications [and Grants]	9 [2][b]	144 [49]	3 [1]	6	14	71 [65]	26 [3]	221 [114]
US Utility Patent Applications	5	53 [17]	--	4	11	--	16	--
Utility Model Patent Applications in China	4	91 [32]	--	2	--	--	4	--
Design and Other Patent Applications [and Grants]	-- [2][b]	--	3 [1]	--	3	--	6 [3]	--

Notes:

a. For US participant applications/inventors in the US, including applications filed under the Patent Cooperation Treaty (PCT) designating China

b. Provisional

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IP Accomplishments: Copyrights

Table 2. Project IP peer-reviewed publications and software copyrighted works

	US authored			China authored			Joint US-China authorship			US Total	China Total
	ACTC	BEE	CVC	ACTC	BEE	CVC	ACTC	BEE	CVC		
Published in the US	19	13[a]	212	340	19	220[c]	--	--	22	266	601
Published in China or international publication	30	22[a]	--	90	10		--	31[a,b]	--	74[a]	131[c]

Notes:

a. BEE researchers published 9 papers in a US publication and concurrently in an international publication, these 9 papers are counted in each category but not double counted in the total.

b. Of the 31 works jointly authored by BEE researchers, 26 were published in an international publication

c. Publication number of China CVC didn't be counted separately by national and international journal.

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Engagement with Consortia Directors and Project Leads

Goals for CERC 2.0

- **One IP agreement model per CERC consortium**
- **Enable Two Technology agreements, e.g. patent licensing agreement**

Methodology

- ***Outreach and greater availability***
- ***Identify projects*** to enable/execute on IP agreements
- ***Understand obstacles*** and work with Participants to address
- ***Pilot innovative solutions***

Looking Ahead: Consider areas for future joint research.

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Expanding Researcher Access to IP Experts and Information

Legal Assistance

- ***Social Media***: CERC Participant chat group access to IP experts (WeChat, etc.)
- **"Short Phone-call" assistance**
- ***Roster of available IP Experts***
- **US Hosted Roundtable for IP Tech-Transfer/Commercialization Staff** (Early 2017)

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Support Website and Materials

New CERC IP Website

- ***Videos*** from past/future workshops and trainings broken into short segments
- ***Animated brief IP training videos*** for researchers
- ***Incorporate existing Web content***
- ***Online CERC IP Guide***
- ***Technology Transfer Support Platform***

IP contract terms 'Best Practices'

Institutional Activities

Trainings: *Self-sustaining* researcher training/executive education program

- Add CERC Case-based Training
- With revenue sharing for CERC IP Track

IP Accomplishments Reporting

- Institutionalize reporting of IP activities/accomplishments

CERC IP and Tech Transfer Guide Book Tour

- Showcases CERC and CERC IP Guide

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Thank you!

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