



To hand on a beautiful earth
to the children of the future

- About Tokuyama Malaysia
- Poly-Silicon
- Project in
Samalaju Industrial Park (SIP)

About Tokuyama Malaysia



Outline of the Tokuyama Group

(As of March 31, 2014)



Established 1918

Capital JPY 53.4 billion

Net Sales JPY 287.3 billion (consolidated basis in Fiscal 2013*)

Business Divisions

- 1.Specialty Product Business Division (**Poly-Silicon**, Fumed Silica, etc.)
- 2.Chemicals Business Division (Soda Ash, Calcium and etc.)
- 3.Cement Business Division (Cement, Fresco Giclee and etc.)
- 4.Life & Amenity Business Division (Fine Chemicals and NF)

Number of employees 5,756 (consolidated)

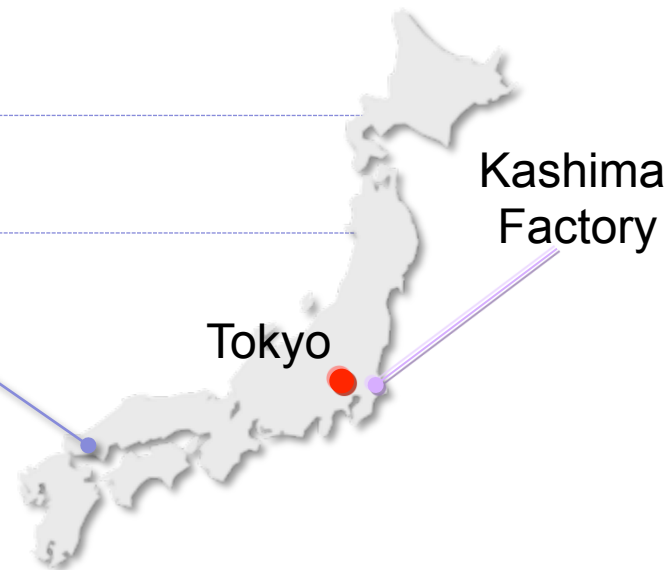
Number of group companies 84

*Fiscal 2013: April 1, 2013 - March 31, 2014

Tokuyama Factory

Kashima Factory

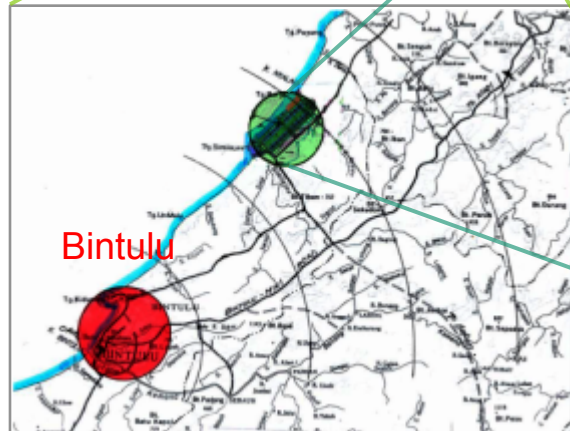
Tokyo



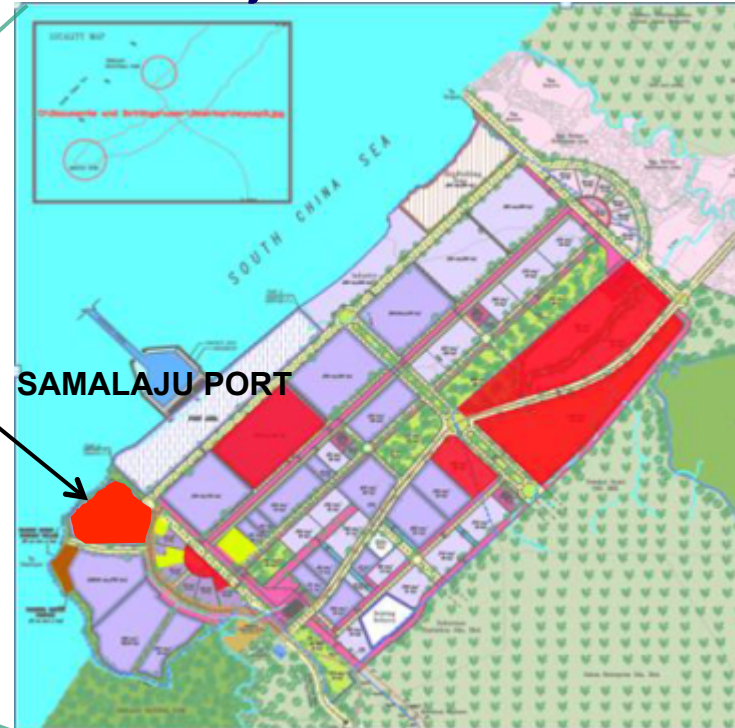
Outline of the Tokuyama Malaysia

Name	Tokuyama Malaysia Sdn. Bhd.
Established	August 18, 2009
Shareholders	Tokuyama Corporation 100%
Production Site	Samalaju Industrial Park
Number of employees	708 (as of October 2014)
Production & Capacity	Poly-Silicon 6,200 tons / year (Phase-1) 13,800 tons / year (Phase-2)
Headquarters	Kuching (opened on November 2, 2009)
Other Office	KL office / Bintulu office

Location: Samalaju Industrial Park



Samalaju Industrial Park



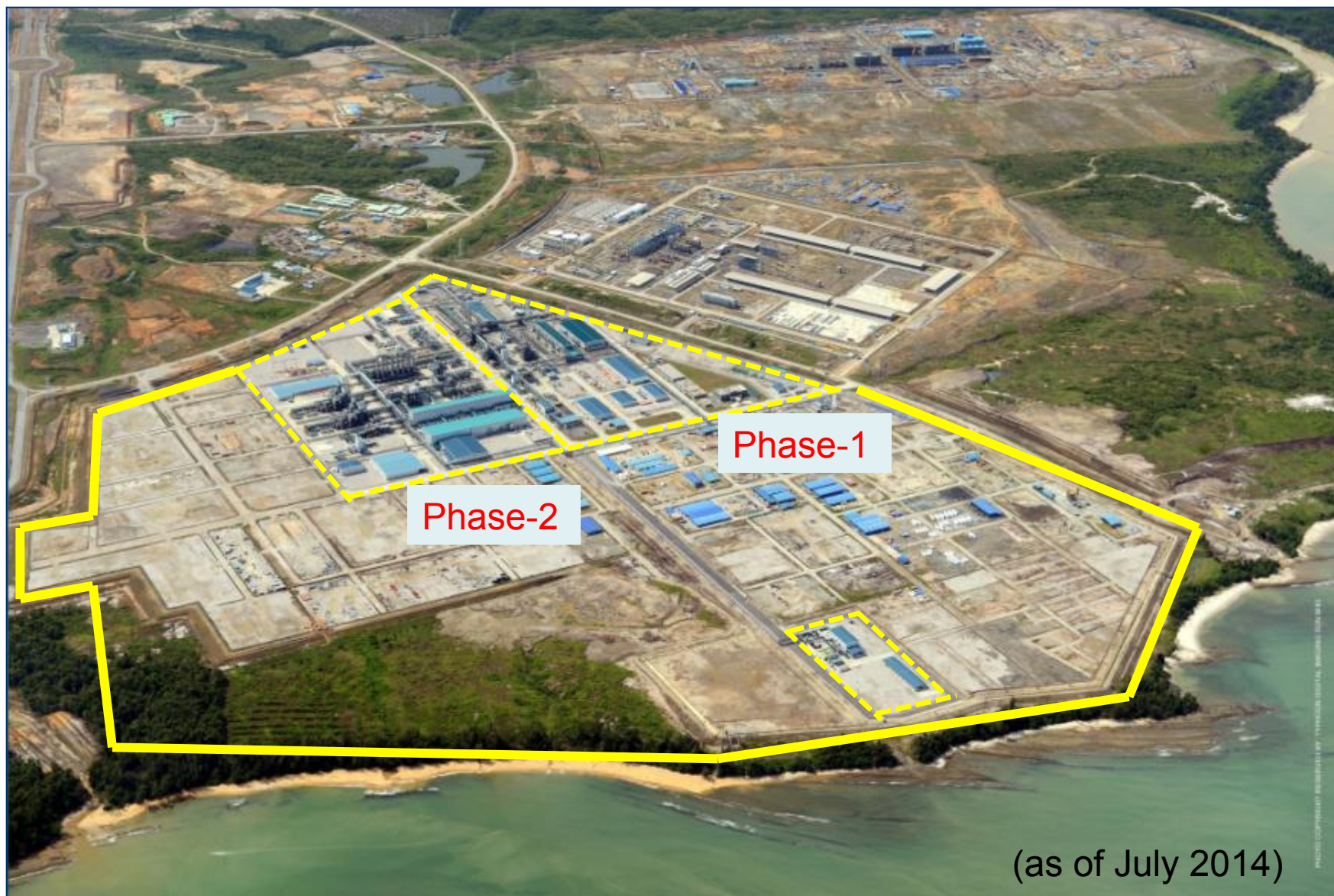
Samalaju Industrial Park The Centre piece of SCORE

- Centre for heavy & energy intensive industries
- More than 8,000 ha of land
- Located 62 km away from existing town of Bintulu

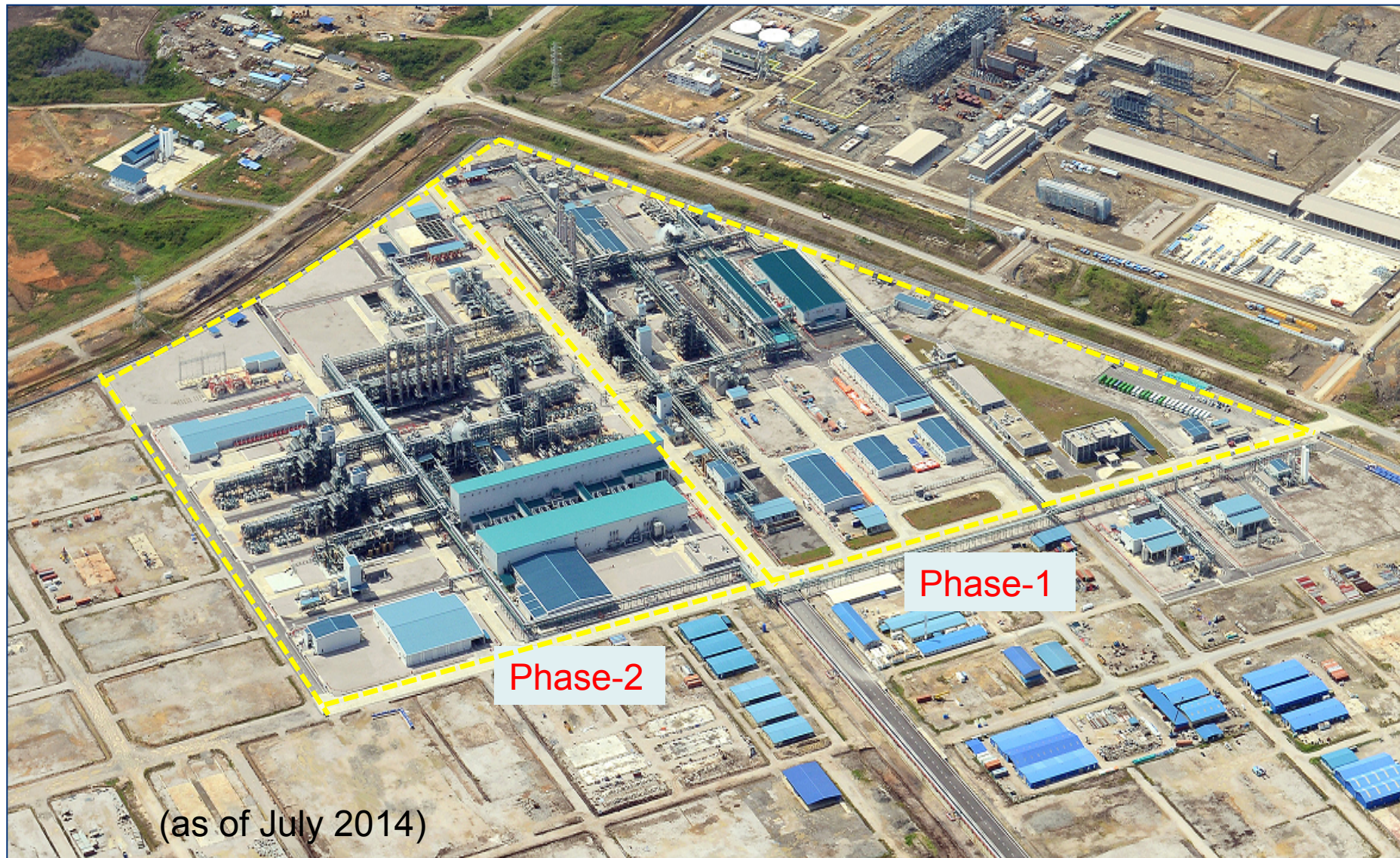
Samalaju Industrial Park



Bird's Eye View Photo of the Plant



Bird's Eye View Photo of the Plant



Inauguration Ceremony, 17 Sep 2014



Inauguration Ceremony, 17 Sep 2014



Inauguration Ceremony, 17 Sep 2014



Poly-Silicon



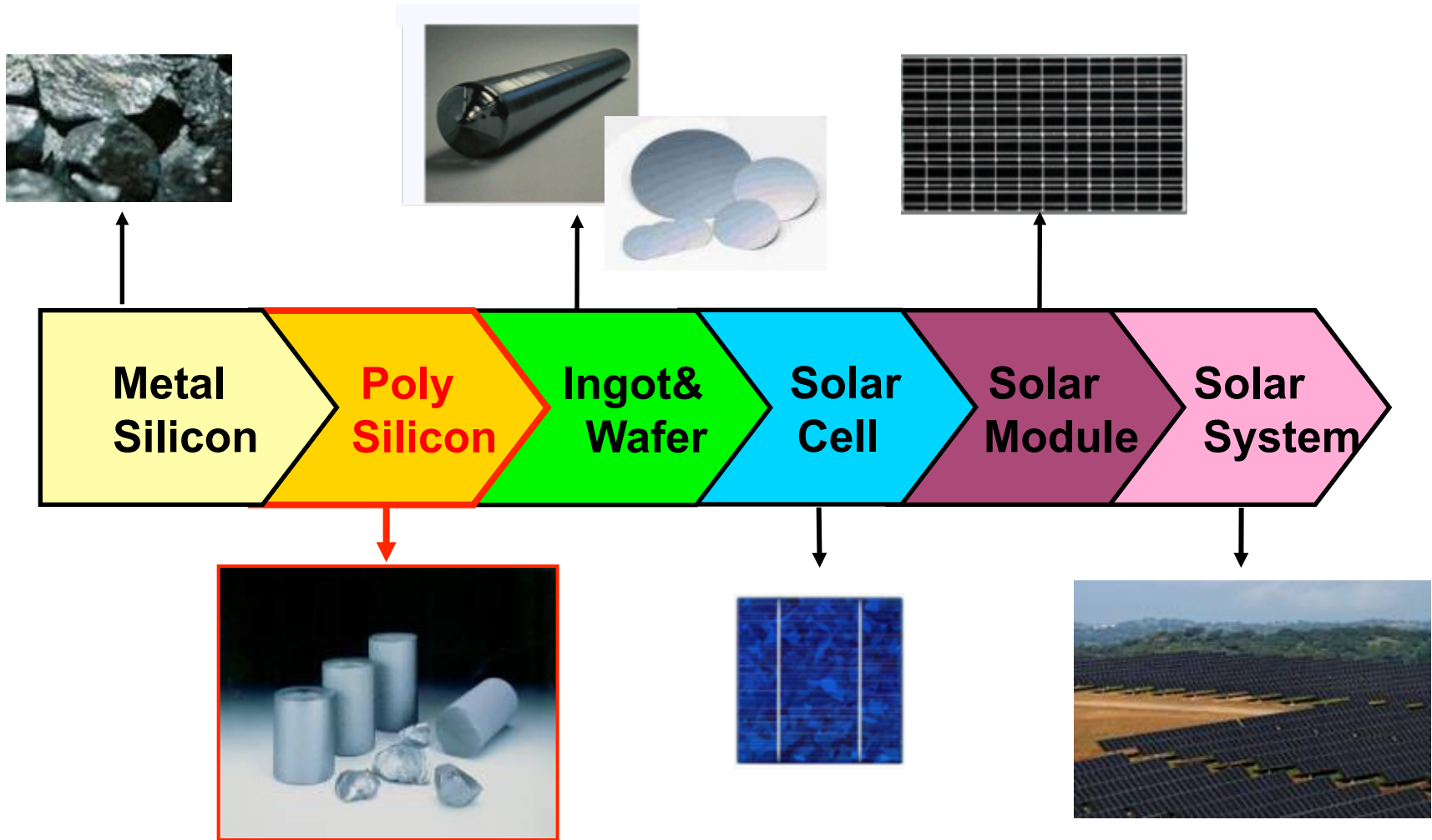
Semiconductor Silicon Wafer
(IC Chips, Electronic Devices)



Poly-Silicon

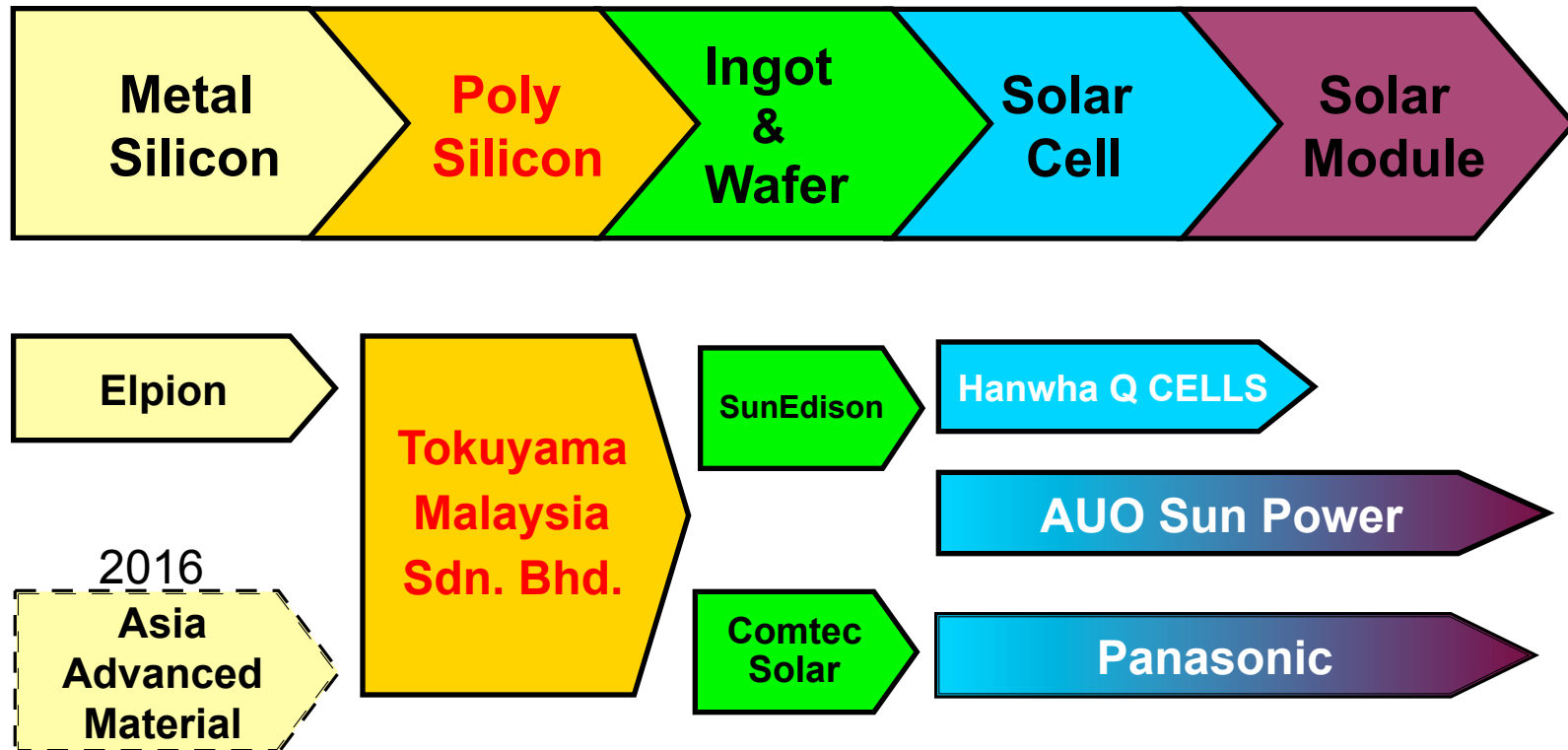
(Polycrystalline Silicon)

Solar Cells & Module



Tokuyama

- ✓ highly purified product (Si 99.999999999%)
- ✓ electrical energy intensive industry



Tokuyama Malaysia is a key player

Solar Value Chain is growing

Project in Samalaju Industrial Park



Samalaju Industrial Park



Companies starting their activity in Samalaju Industrial Park

Company	Products	Status	Shareholder
Press Metal Sarawak Sdn. Bhd.	Aluminum-Smelting	In operation	Press Metal Bhd. : 80% Sumitomo Corp. : 20%
Tokuyama Malaysia Sdn. Bhd.	Poly-Silicon	In operation	Tokuyama Corporation: 100%
Iwatani-SIG Industrial Gases Sdn Bhd,	Liquid Gases	In operation	Iwatani Industrial Gas Pte Ltd : 60% Southern Industrial Gas Sdn Bhd, : 40%
Pertama Ferroalloys Sdn. Bhd	Silicon Manganese Ferro Silicon Carbon Ferro Manganese	Under construction	Asia Minerals LTD. : 60% Nippon Denko Co., LTD. : 20% Others : 20%
OM Materials Sarawak Sdn Bhd	Ferro Silicon Alloys Manganese Ferro Alloys	Under construction	OM Materials Pte Ltd : 80% Chaya Mata Sarawak Bhd. : 20%
Asia Advanced Material Sdn. Bhd.	Silicon Metal	In land preparation	Asia Cement Co. Ltd.: 100%
Sakura Ferroalloys Sdn. Bhd.	Manganese Alloys	Start of construction : 2014	Assmang Ltd. : 54% Sumitomo Corp. : 27% China Steel Corp. : 19%

		Phase-1	Phase-2
Starting Construction		2011 1Q	2012 1Q
Starting Operation		2014 4Q	2014 4Q
Production Capacity	T/Y	6,200	13,800
Investment	RM (billion)	3	5
Employment *1	No.	500	550
Electricity	MW	120-140	180-200

**1 Employment : Including Service Provider*

Ease of Securing Necessary Resources

- **Large Volume of Electricity (Hydropower)**
- **Industrial Water**
- **Highly Educated Workers**



Bakun Dam

Preferential Treatment by Federal and State Government

- **Preferential Tax Treatment**
- **Support for Acquisition of Permits and Licenses**



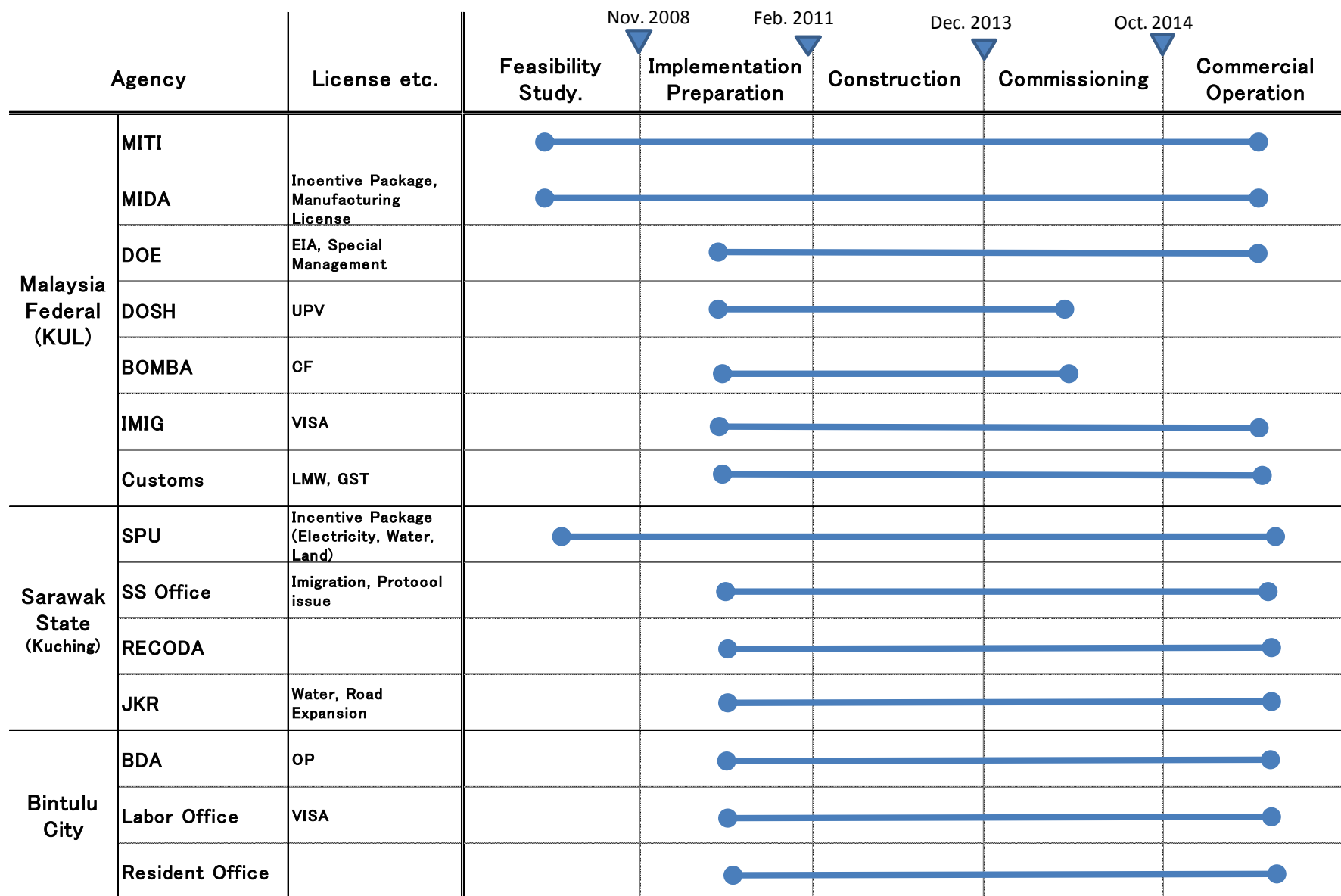
Press Conference in Malaysia, Nov. 2008

Infrastructure	Status-Quo, Plan and Concern
Electricity	[Status-Quo] ✓ Electricity Supply from Samalaju Substation started in Jun 2012
Industrial Water	[Status-Quo] ✓ New 80MLD Facility completed in Mar 2014
Water Reservation	[Plan] ✓ First 2 modules (40MLD) to be completed in Nov 2014 ✓ Remaining 2 modules (40MLD) to be completed by Jun 2015
Port Facilities	[Status-Quo] ✓ Phase 1 Construction Works in progress ✓ Temporary Barge Berth started Operation in Apr 2014
Waste Treatment	[Concern] ✓ Implementation Plan for Waste Treatment Facilities and Dump Site (General Waste, Scheduled Waste) in Maskat is uncertain

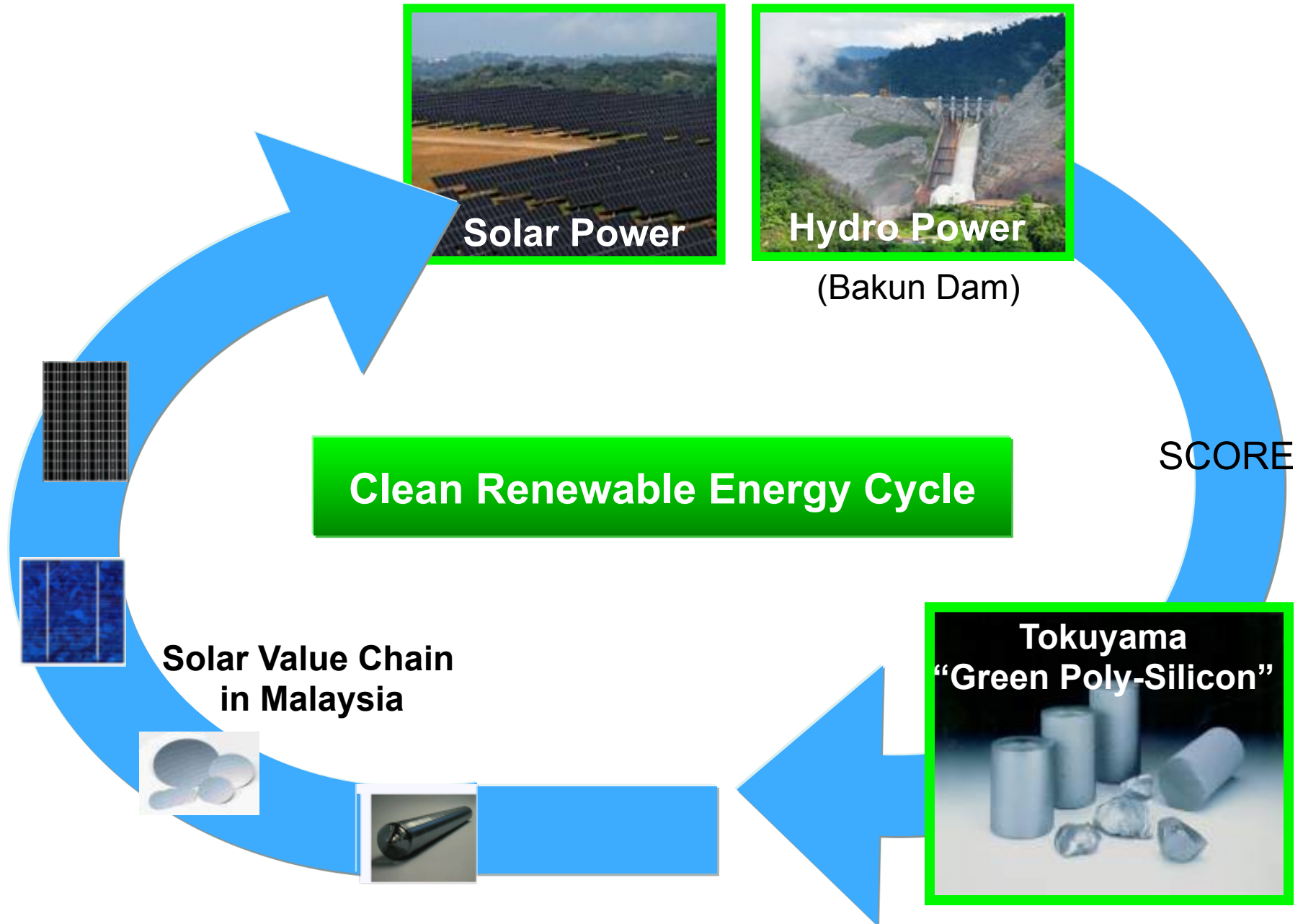
Infrastructure	Status-Quo, Plan and Concern
Land Transportation	<p>[Status-Quo]</p> <ul style="list-style-type: none"> ✓ Additional Overtaking Lane between Bintulu and SIP completed in Oct 2014 ✓ Construction of Bypass Road from Samaljau to Old Road (Route 1) on going <p>[Concern]</p> <ul style="list-style-type: none"> ✓ Insufficient road condition such as no street light
Police	<p>[Status-Quo]</p> <ul style="list-style-type: none"> ✓ Temporary Police Station in Samalaju established in May 2012 <p>[Concern]</p> <ul style="list-style-type: none"> ✓ Establishment of the Permanent Station is planned , but the implementation plan is uncertain.
Fire Station (BOMBA)	<p>[Status-Quo]</p> <ul style="list-style-type: none"> ✓ Temporary Fire Station in Samalaju opened in Dec 2012 <p>[Plan]</p> <ul style="list-style-type: none"> ✓ The Permanent Fire Station will be completed in 2015

Infrastructure	Status-Quo, Plan and Concern
Hospital / Clinic	<p>[Concern]</p> <p>✓ No Public Clinic and Emergency Transportation Ambulance Service in SIP</p>
Township	<p>[Plan]</p> <p>✓ 3-Star Hotel Facility in SIP scheduled at End/2014</p> <p>[Concern]</p> <p>✓ Uncertain Implementation Plan</p> <ul style="list-style-type: none"> • Residential Houses for Employees • Operation of Commuting Buses • National School, International School, Shopping Center, etc.
Telecommunication	<p>[Status-Quo]</p> <p>✓ General Telecommunication Available</p> <p>[Concern]</p> <p>✓ No signal of Mobile Phone at Certain Location between Bintulu and Samalaju</p>

Supports by Federal and State Agencies



Renewable Energy Cycle in Malaysia

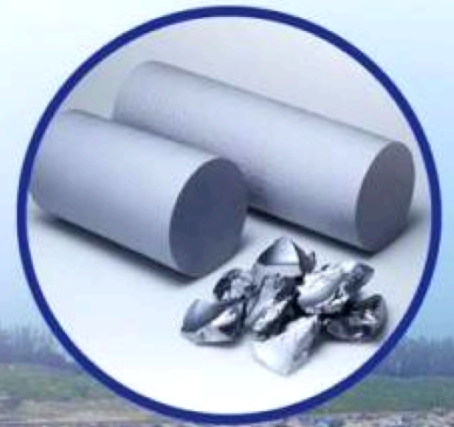




Tokuyama Malaysia Sdn. Bhd.

TO HAND ON A BEAUTIFUL
EARTH TO THE CHILDREN
OF THE FUTURE

Tokuyama brings more than 25 years of polycrystalline silicon expertise from Japan, where it has been a key manufacturer and supplier to industries ranging from chemicals to building materials, electronics and medical equipment since 1918.



Thank you

Terima Kasih

