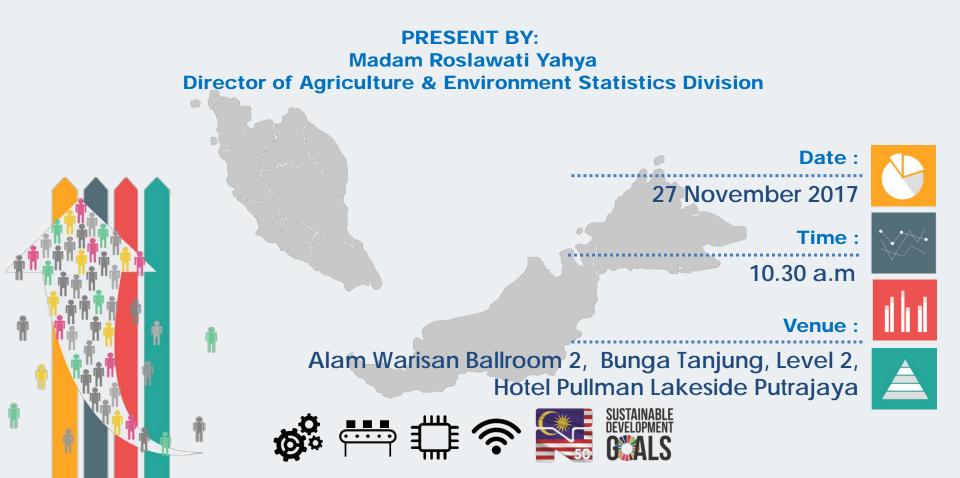
NATIONAL CLOSING WORKSHOP SEEA



SYSTEM OF ENVIRONMENTAL-ECONOMIC ACCOUNTING (SEEA) MALAYSIA









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BACKGROUND

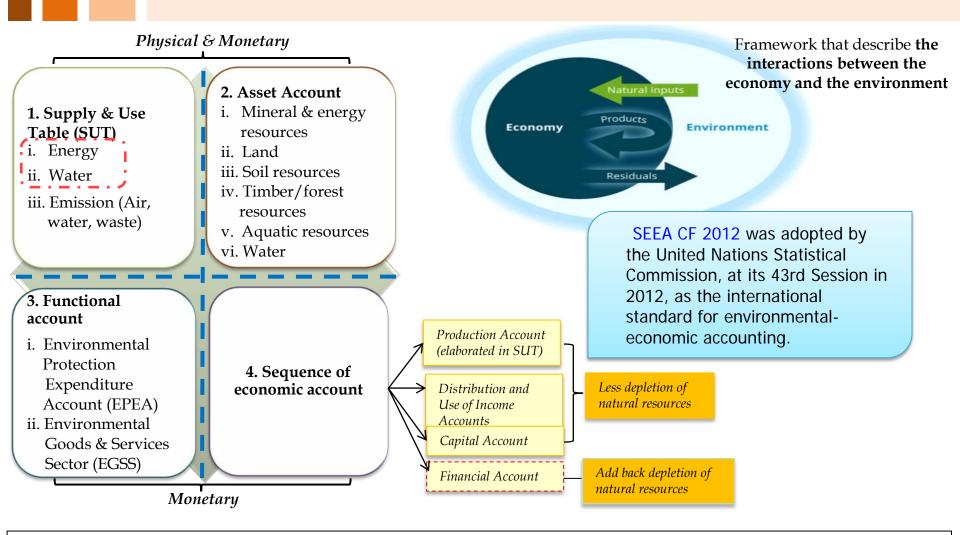


- United Nations Statistics Division (UNSD) has conducted a development account project "Supporting Member States in Developing and Strengthening Environment Statistics and Integrated Environmental-Economic Accounting for Improved Monitoring of Sustainable Development" for the period of 2016 - 2017 :
 - To strengthen the regular and sustained production of environment statistics
 - To strengthen the compilation of environmental-economic accounts and supporting statistics by integrating environment and economic statistics and linking it to policy demand – Malaysia as a pilot country
- Objective: To measure the effectiveness of environmental policies/programmes
- Project's outputs: *Roadmap* SEEA Malaysia and SEEA Water Account
- National consultant: Dr. Mohd Yusof Saari from UPM



THE SEEA CENTRAL FRAMEWORK





Note: (i) SEEA applies the accounting concepts, structures, rules and principles of the SNA (i.e. Production boundary, definition of products and territory/residential approach.)

(ii) For more information, refer to : SEEA CF 2012, SEEA for Energy, SEEA for Water, SEEA for Ecosystem, SEEA Agriculture, Forestry and Fisheries (draft version) and SEEA- Applications & Extensions.





ROADMAP SEEA MALAYSIA



ACTIVITY ON PREPARING THE ROADMAP





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6

ROADMAP SEEA MALAYSIA







THE PURPOSE OF ROADMAP SEEA MALAYSIA



1.

Establishing the rationale for an integrated statistical system for sustainable development information

2. Summarizing the priorities and opportunities in Malaysia for further improvement of the National Statistical System with a focus on SEEA

Outlining the foundational activities needed to implement environmental economic accounting ready for use in fully developed and budgeted funding proposals.

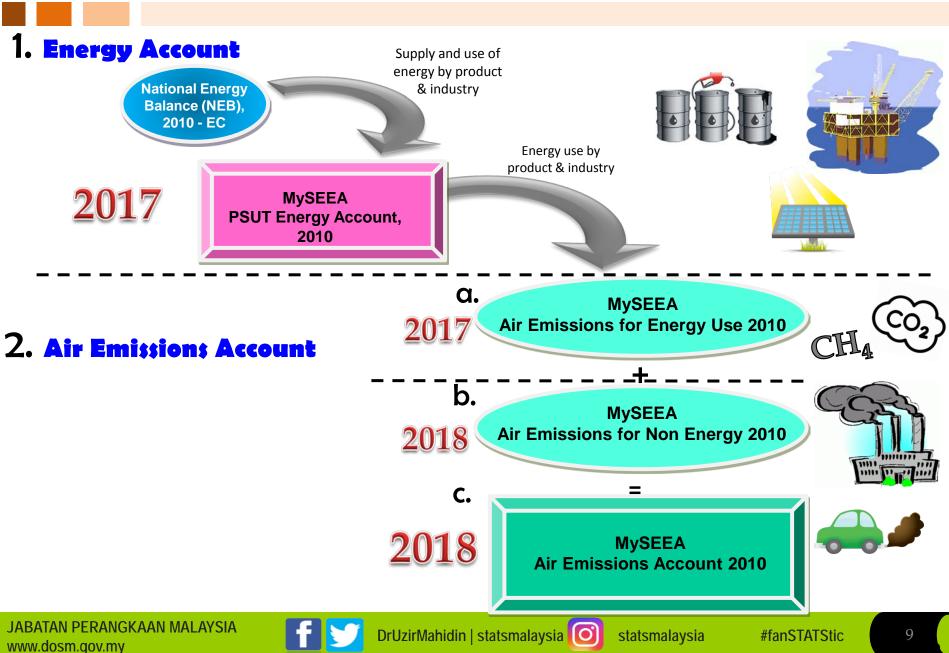
3.

Identifying the enabling factors (preconditions for engaging in activities), activities, outputs, impacts and long-term outcomes of engaging in these activities



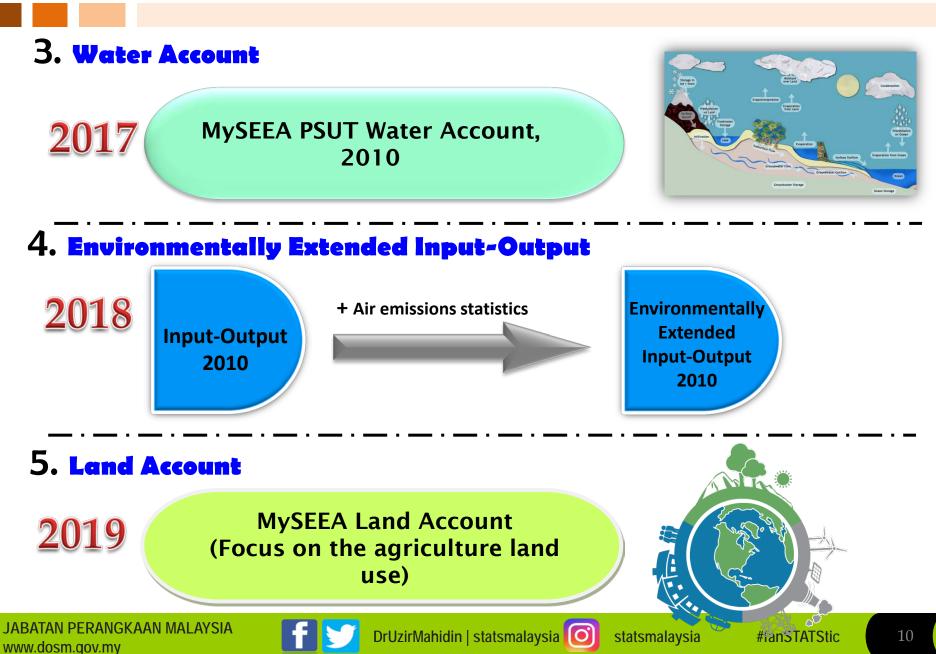
SEEA ACCOUNT DEVELOPMENT PLAN 2016 - 2020





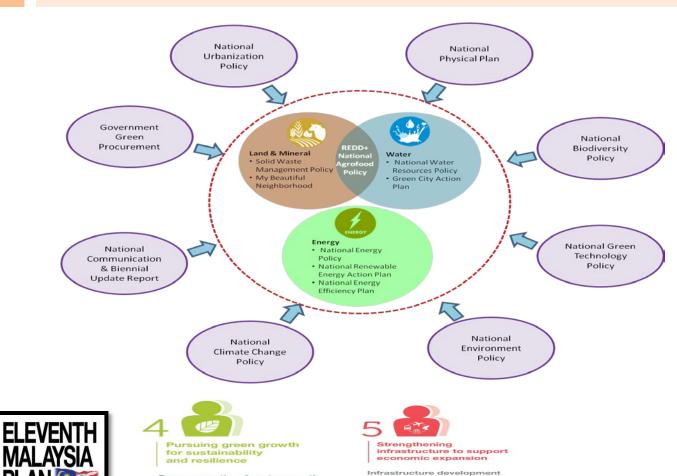
SEEA ACCOUNT DEVELOPMENT PLAN 2016 - 2020 (cont'd)





NATIONAL POLICY & PRIORITIES





Green growth refers to growth that is resource-efficient, clean, and resilient. It is a commitment to pursue development in a more sustainable manner from the start, rather than a more conventional and costly model of 'grow first, clean up later'. A reinforced commitment to green growth will ensure that Malaysia's precious environment and natural endowment are conserved and protected for present and future generations.

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2016-2020

HORING GROWTH ON PEOPLE

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ensures that the rakvat have

access to essential amenities and services such as transport, communications, electricity and

clean water. Better integration

people and goods. Moreover,

an efficient infrastructure lowers the cost of doing

is therefore the foundation

expansion, and growth.

of social inclusion, economic

of different transport modes will create seamless movement for

business, which in turn improves

national competitiveness and productivity. Good infrastructure

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11

POLICIES/PLANS/PROGRAMMES RELATED TO SEEA



SEEA ENERGY ACCOUNT



- Eleventh Malaysia Plan
- National Energy Policy
- National Climate Change Policy
- National Environment Policy
- National Green Technology Policy
- National Mineral Policy
- Green Technology Master Plan
- National Energy Efficiency Action Plan
- National Renewable Energy Policy and Action Plan
- Second National Physical Plan
- Government Green Procurement Action Plan
- Green City Action Plan
- National Strategic Plan for Solid Waste Management
- Third National Communications (TNC) and Biennial Update Report (BUR)

SEEA WATER ACCOUNT

- Eleventh Malaysia Plan
- National Agro-food Policy
- National Climate Change Policy
- National Green Technology Policy
- National Biodiversity Policy
- National Water Resources Policy
- National Environment Policy
- National Urbanization Policy
- Green City Action Plan
- Second National Physical Plan
- National Strategic Plan for Solid Waste Management
- My Beautiful Neighbourhood (MyBN)
- REDD+ Malaysia
- Third National Communications (TNC) and Biennial Update Report (BUR)



POLICIES/PLANS/PROGRAMMES RELATED TO SEEA



SEEA LAND ACCOUNT

- National Agro-food Policy
- National Climate Change Policy
- National Green Technology Policy
- National Urbanization Policy
- National Biodiversity Policy
- Second National Physical Plan
- Green City Action Plan
- National Strategic Plan for Solid Waste Management
- My Beautiful Neighbourhood (MyBN)
- REDD+ Malaysia
- Third National Communications (TNC) and Biennial Update Report (BUR)

SEEA AIR EMISSION ACCOUNT

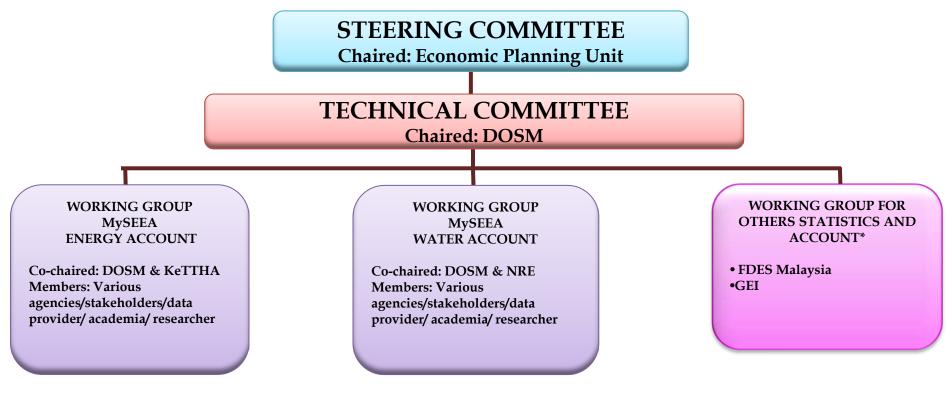
- Eleventh Malaysia Plan
- National Climate Change Policy
- National Green Technology Policy
- National Environment Policy
- National Urbanization Policy
- Green Technology Master Plan
- Green City Action Plan
- National Strategic Plan for Solid Waste Management
- Third National Communications (TNC) and Biennial Update Report (BUR)



GOVERNANCE STRUCTURE



PLANNING & DEVELOPMENT OF ENVIRONMENT STATISTICS COMMITTEE



NOTE:

- * New environment statistics:
 - Latest UNSD's manual
 - Project received from international organization
- Membership will be reviewed from time to time





MySEEA PSUT - ENERGY



JOURNEY OF SEEA MALAYSIA



<u>2010</u>

Parliamentary question related to Green GDP

<u>2012*</u>

Study the Handbook of SEEA 2003¹ & NAMEA²

23 – 27 Sept 2013 The 1st Sub-Regional Course on SEEA - Collaboration with UNESCAP/UNSIAP/UNSD

<u>30 Sept – 1 Oct 2013</u> Assessment Mission on SEEA by UNESCAP/UNSIAP/UNSD

2014 Parliamentary question related to Green GDP

<u>3 April 2014</u> SEEA Awareness Workshop with agencies

<u>9 July 2014</u>

Proposed to Main User Committee (MUC) i. PSUT Energy (2014-2015) ii. PSUT Water (2015-2016)

<u> 2015 – 2016</u>

Compilation of MySEEA PSUT-Energy - Set up Technical Working Group (inter DOSM & inter agency)

<u>19 – 23 Sept 2016</u> Assessment Mission on SEEA by UNSD and UNESCAP

<u> March - Nov 2017</u>

Present MySEEA PSUT-Energy

- Executive Talk to Statisticians in DOSM, March 2017
- 2nd APES Week Bangkok Thailand, May 2017
- Inter-regional Workshop on Strengthening Statistical Capacities for Building Macroeconomic and Sustainable Development Indicators in Latin America, the Caribbean & Asia-Pacific Countries, July 2017, Santiago, Chile
- Research Colloquium INTAN, Sept. 2017, Malaysia
- Statistics Colloqium DOSM, Sept. 2017
- MyStats Conference, Nov. 2017
- Regional Closing Workshop on SEEA, Nov. 2017

August 2017

Released of Report on MySEEA PSUT-Energy 2010

<u>22 Feb 2017</u>

Present findings of MySEEA-Energy to MUC

<u> 24 – 27 Jan 2017</u>

Technical Assistance from UNSD & Statistics Denmark - Evaluation on MySEEA PSUT-Energy

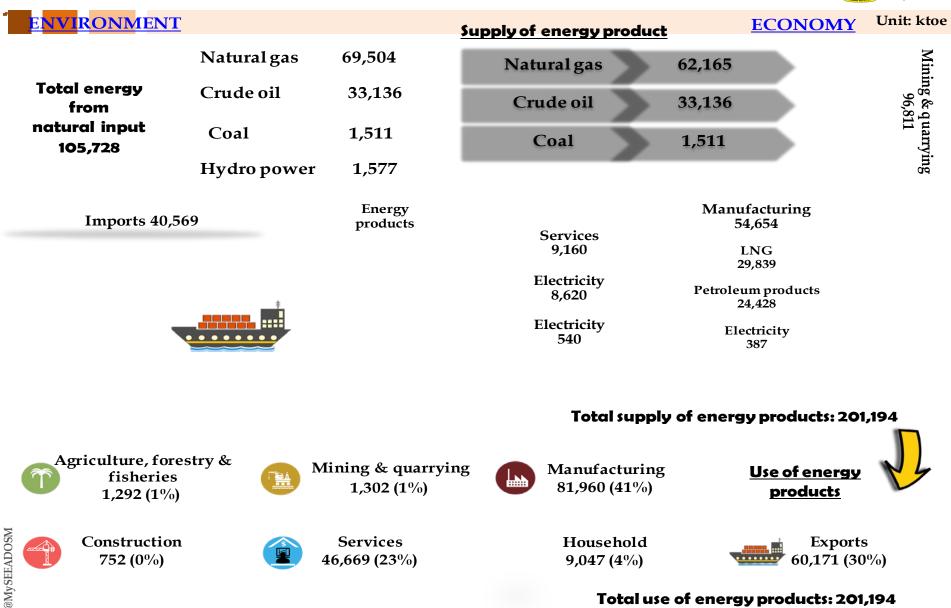
<u>26 – 30 Sept 2016</u>

Regional Course on SEEA Water by UNSD/ UNESCAP



ENERGY PHYSICAL FLOW 2010





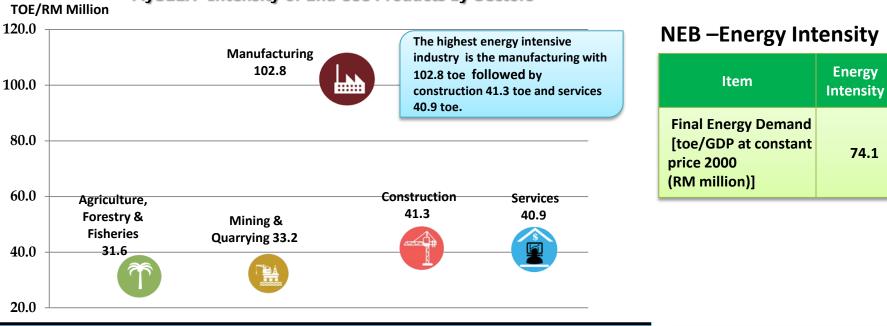


INTENSITY



74.1

MySEEA- Intensity of End Use Products by Sectors



| ltem | Agriculture, Forestry & Fisheries | Mining & Quarrying | Manufacturing | Construction | Services | MySEEA – Ener | gy Intensity |
|---|---|-----------------------|---------------|--------------|------------|---|--------------|
| End use of energy products (TOE) | 1,291,549 | 1,302,102 | 15,898,917 | 752,205 | 13,182,751 | Total end use incl. household (TOE) | 41,475,000 |
| GDP by kind of economic activity at constant price 2000 (RM million) | 40,916 | 39,270 | 154,640 | 18,220 | 322,611 | GDP at constant price 2000 (RM million) | 559,554 |
| Energy intensity (toe/value added) | 31.6 | 33.2 | 102.8 | 41.3 | 40.9 | Energy intensity (toe/GDP) | 74.1 |

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MULTIPLIER EFFECT



Final Demand

| Sector | Energy use (TOE) | New energy use (TOE) - by increasing of 10% Final Demand for the manufacturing sector | Growth rate (%) | | |
|--------------------------------------|---------------------|--|-----------------|--|--|
| Agriculture, Forestry & Fisheries | 1,291,549 | 1,362,733 | 5.5 | | |
| Mining & Quarrying | 1,302,102 | 1,365,935 | 4.9 | | |
| Manufacturing | 80,982,854 | 87,932,713 | 8.6 | | |
| Construction | 752,205 | 757,348 | 0.7 | | |
| Services | 49,041,751 | 49,910,455 | 1.8 | | |

Increase of 10% in Final Demand in the manufacturing sector will give a direct effect on the growth rate of energy consumption in the manufacturing sector 8.6%. In addition, it also gives the indirect effect to the growth rate of energy consumption for agriculture, forestry & fisheries (5.5%) and mining & quarrying sector (4.9%).



REPORT OF MySEEA PSUT-ENERGY 🥸



Edaran Terhad



MALAISIA

LAPORAN SYSTEM OF ENVIRONMENTAL-ECONOMIC ACCOUNTING PHYSICAL SUPPLY AND USE TABLE - AKAUN TENAGA MALAYSIA, 2010 (MySEEA PSUT-TENAGA)



JABATAN PERANGKAAN MALAYSIA DEPARTMENT OF STATISTICS MALAYSIA

Main contents:

- Methodology
- Strategic Plan for the Development of SEEA Malaysia
- Issues & Challenges
- Findings

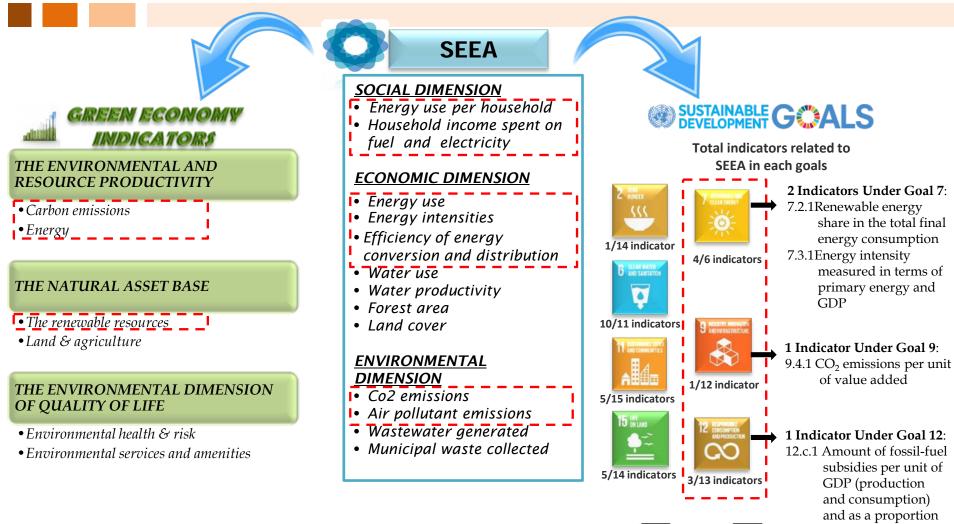
Purpose:

To document experience as a reference & guideline for the future reference



MySEEA PSUT - ENERGY INPUT TO GEI & SDG 💯





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fuels

of total national expenditure on fossil



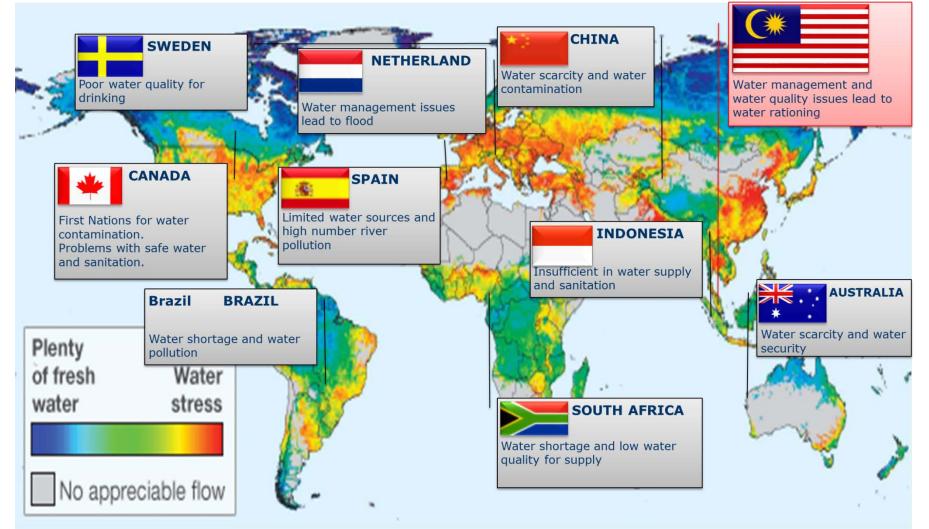
MySEEA PSUT - WATER



WHY WATER ACCOUNT?



- Policy Priorities





WHY WATER ACCOUNT? (cont'd)



- Current Issues

Enam bulan tiada air

Penduduk derita, tanggung rugi

AD INC. M. BRIDEN OF PROPERTY. of the local division in which the Real Property lies, the rate of the local division in the local division in

Terpaksa kongsi air

COLUMN ADDRESS & DOTTORNEY

Ketiadaan bekalan air beban penduduk Kampung Denai

KAMPUNG DENAL - Estika

Mislargowa schiruppe kies, adsomand aparat dello-delove us redelated

Air paip tercemar 300 Orang Asli tidak mahu guna bekalan air

>>0leh Samsudin Awang

masak makanan kerana ia pembaziran kepada kerajaan UANTAN: Kira-kira masak

akan bertukar warna men- kerana sudah membelaniajadi keperangan apabila di- kan jutaan ringgit bagi menyalurkan kemudahan

Syabas: Fewer grouses over rationing

'Water supply delays faced by multi-storey buildings addressed and resolved'

PETALING JAYA: Syarikat Bekalan systems would be thoroughly ued lack of supply at several apart-Air Selangor Sdn Bhd (Syabas) has continuously acted to resolve public complaints, saying there are fewer grouses related to water rationing

checked for water pressure, air locks ment blocks in Flora Damansara, in the pipeline and other factors that might cause disruption. Syabas had to get cooperation from the building's joint management

she said for high-rise premises, problems.

She said the disruption could have Selangor state government (Shah been caused by internal piping Alam), Kuala Lumpur City Centre, Kuala Lumpur International Airport On allegations that Syabas had (KLIA), Subang airport, the Port not conducted water rationing in Klang Free Zone (PKFZ), free trading

INVESTIGATION UNDERWAY Part of the River Tawe between Morfa and the enterprise park that has turned orange

River turns orange in pollution mystery AN Investigation is underway I BY SHAUN GREANEY

into pollution which has shaun greater dewen could

Passerby Cath Davies, of Quarr Road,



WHY WATER ACCOUNT? (cont'd)

SENGGARANG



- Current Issues

Najis babi cemar dua sungai

beroperas

kawasan

menyebal

cemar ber

termasuk

Ujian ke

Paras

sihatan ia

pengukur

Pening

Oleh Salina Abdullah

KUALA SELANGOR: Satu kajian mendapati paras pencemaran di Sungai Sembah dan Sungai Selangor meningkat dipercayai berpunca daripada kumbahan najis babi dari ladang ternakan berdekatan

Kajian oleh sekumpulan ahli kimia dalaman sebuah syarikat pada September 2002 itu, mendapati paras ammonia dan bakteria di sungai berkenaan meningkat sejak ladang ternak babi beroperasi di kawasan itu, berbanding tahun sebelumnya.

ngambila Ammonia dan bakteria T Coammonia liform petunjuk yang digunakan mg/L tah bagi menentukan mutu air. Pemg/L pac ningkatan paras ammonia dan T Coliform menunjukkan air meyang dibe ngalami pencemaran.

Ammonia adalah sebatian nitrogen bersifat toksik dan boleh setiap kal melebihi menjejaskan kesihatan manusia di samping hidupan akuatik. Se-(most pr lain najis ternakan, ammonia juga hadir dalam baja nitrat yang digunakan untuk pertanian.

Ladang temakan babi itu dipercavai mula beroperasi lebih setahun lalu selepas berpindah dari Tasik Puteri, Rawang yang diarahkan tutup

Berita Harian difahamkan labersih. dang ternakan babi itu menyedia-Satu k kan kolam rawatan dan takungan pang beb monomnothan cica atau

lam/tasik berdekatan seterusnya ke sungai yang menjadi sumber bekalan air bersih di Selangor dan naan

Wilayah Persekutuan. Kajian itu juga mendapati paras ammonia di Sungai Sembah meningkat kepada 1.290 miligram per liter (mg/L) berbanding 0.65 itu sebelu

PUSAT pemotong

jika menggunakan sur yang tercemar dengan na Sungai Sepang antar yang disifatkan `mati' ak

cemaran najis babi. Mer memakan ikan atau hasi Designations mir change Derweith pan dari sungai yang terc

50 tahun tanpa bekalan air bersih

Insani mahu masalah dihadapi enam keluarga diselesaikan segera

yang pali Selain Hampir 100,000 penduduk di di Kuala Lumpur, Gombak dan Ampang sisa darip mungkin terpaksa berhadapan dengan masalah bekalan air untuk ngandun tinggi di seminggu lagi berikutan kegagalan kali kedua sistem rumah pam di Wangsa Maju dan Pudu Hulu Baru 🗅 22 parasit he ngalir ke boleh me

> Penduduk di Flat Seri Melaka terpaksa beratur untuk mendapatkan bekalan air melalui tangki sementara yang disediakan pihak Syabas, semalam.



SEEA PSUT – Water Account 2010, Malaysia



Physical Use Table

| Physical use table for water (million | Abstraction of water: intermediate consumption: Return flows | | | | | | Final consumption | Flows from the rest of the world | Flows to the environment | Total use |
|--|--|---------------|----------------------|--------------|---------------------|----------------|-------------------|--|--------------------------|-----------|
| cubic metre) | | Manufacturing | Mining and quarrying | | Services | | _ | | | |
| | Agriculture | | | Construction | Water collection | Other services | Households | Exports | | |
| (I) Sources of abstracted water | | | | | | | | | | |
| Inland water recources | | | | | | | | | | |
| Surface water | 2,044.80 | 0.11 | 52.73 | 0.03 | 5,463.07 | 0.05 | | | | 7,560.78 |
| Groundwater | | | | | 74.34 | | | | | 74.34 |
| Total | 2,044.80 | 0.11 | 52.73 | 0.03 | 5,537.41 | 0.05 | | | | 7,635.12 |
| Other water sources | | | | | | | | | | |
| Sea water | 158.12 | | | | | 12.32 | | | | 170.44 |
| Total use abtracted water | 2,202.92 | 0.11 | 52.73 | 0.03 | 5,537.41 | 12.37 | | | | 7,805.56 |
| (II) Abstracted water | | | | | | | | | | |
| Distributed water | 22.20 | 428.14 | 1.32 | 24.36 | | 740.32 | 1,631.12 | 23.23 | | 2,870.70 |
| Own use | 2,202.92 | 0.11 | 52.73 | 0.03 | 387.62 | 12.37 | | | | 2,655.78 |
| (III) Wastewater (sewerage) | | | | | | | | | | |
| Wastewater received from other sources | | | | | 4,394.82 | 2 | | | | 4,394.82 |
| (IV) Return flows of water | | | | | | | | | | |
| Returns of water to the environment | | | | | | | | | 7805.56 | 7,805.56 |
| (V) Losses/trade balance | | | | | | | | | | |
| Loss during distribution | | | | | 2,302.32 | 2 | | | | 2,302.32 |
| Trade balance | | | | | | | | 23.15 | | 23.15 |
| Total use | 4,428.03 | 428.36 | 106.78 | 24.41 | 12,622.17 | 765.06 | 1,631.12 | 46.39 | 7,805.56 | 27,857.89 |
| | | | | | | | | | | |

Notes: Dark grey cells are null by definition.



SEEA PSUT – Water Account 2010, Malaysia



Physical Supply Table

Notes: Dark grey cells are null by definition.



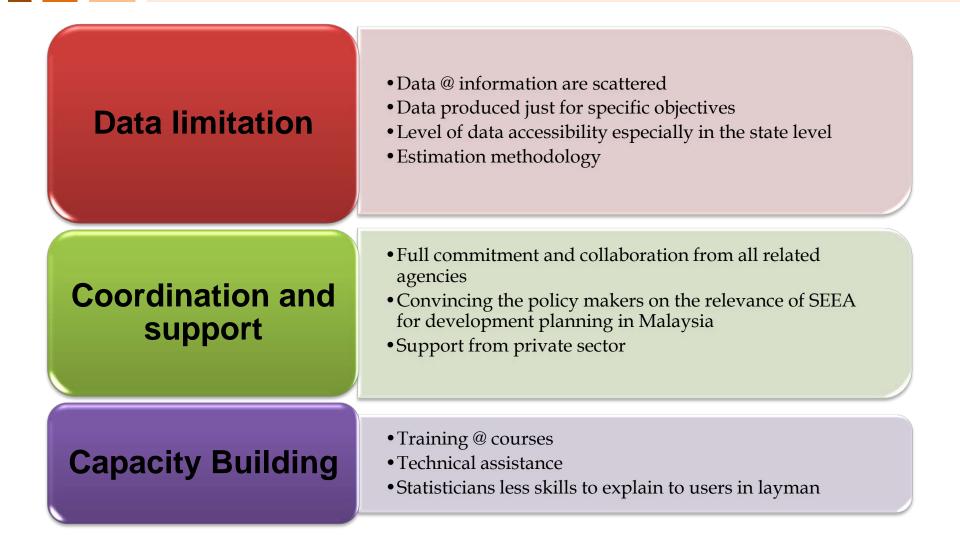


ISSUES & CHALLENGES



ISSUES & CHALLENGES







ISSUES AND CHALLENGES



- Issues related to data



- Different underlying method or classification.
- Different sources have different aggregate values.



MISSING DATA

- Types of missing data
 - i. Single cell or flow is missing.
 - ii. Data cannot be estimated residually.



RELIABILITY OF NON-SURVEY APPROACH

- Estimation might be undervalued or overvalued.
- Bias on the influential factors and quantification





CRITICAL SUCCESS FACTOR

Data dissemination "Merakyatkan statistik" Promote & advocate thru: Media – press release. launching by ministry via visualisation/social media •Journals - collaboration with academia/organisation Roadshow

Manual & reference for compiler

Capacity building •Courses & training

 Meeting with experts Technical assistance

Workshop

Assessment

Attachment

Valuation

 Specific subsystem Simple explanation by modules Examples Presentation in simple table

Note:

i. Current workforce in developing SEEA Malaysia-6 officers

Critical

- ii. No. of capacity building received:
 - Course & training 4 ٠
 - Workshop 2
 - Assessment 2
 - Meeting with experts -7
 - Technical assistance & valuation 1





Official agreement Access data Data verification

management

Commitment &

Stakeholders

Data provider

collaboration from

agencies/other parties

•Academia/Researcher

International organisation

Commitment from







WAY FORWARD



WAY FORWARD





Improving current economic and environmental surveys



Development of integrated data system



Strategic Communication

- 1. Capsule
- 2. Brochure
- 3. Exhibition booth
- 4. Statistics talk





CAMERA LENSE







1st Subregional Course on SEEA (23 – 27 Sept. 2013)



11th Session of United Nations Committee of Experts on Environmental-Economic Accounting (22 – 24 Jun 2016)



Assessment Mission on SEEA (30 Sept. – 1 Oct. 2013)



SEEA Awareness Workshop with Agencies (3 April 2014)





CAMERA LENSE (cont'd)



Engagement session with agencies(July - Nov. 2016)



Regional Training Workshop of SEEA with a focus on Water Accounting (26 – 30 Sept. 2016)



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Assessment Mission with UNSD & ESCAP (19 - 23 Sept. 2016)



Technical Assistance on Air Emissions Account & Evaluation on Energy Account (24 – 27 Jan. 2017)



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Pre-Technical Working Group Internal Committee Meeting of Planning and Development for Environment Statistics MySEEA – Water (11 Oct. 2017)



Technical Working Group Internal Committee Meeting of Planning and Development for Environment Statistics MySEEA – Water (1 Nov. 2017)



Technical Working Group Committee Meeting of Planning and Development for Environment Statistics MySEEA – Water (13 Oct. 2017)



Technical Committee Meeting of Planning and Development for Environment Statistics (13 Nov. 2017)







SPECIAL THANKS





UNIVERSITI PUTRA MALAYSI







"Statistics are the barometer that reflects the pulse of the country"

> Dr. Mohd Uzir Bin Mahidin, The Star, 14th July 2016

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