



Overview

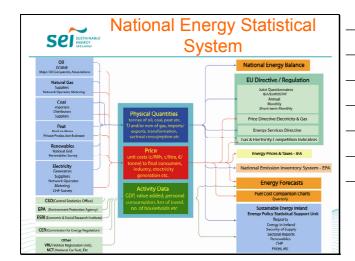
- Structure of Irish Energy Statistics
 - Institutional & Legal Structure
 - Data Collection
 - Data Structure
- Sectoral Disaggregation
- Future Work & Opportunities
 - Building Energy Rating
 - Regulated Markets Metered Data
 - Public Sector
 - Carbon Tax



Key Institutions

- Sustainable Energy Ireland
- · Central Statistics Office
- Department of Communications, Energy & Natural

Resources





Legal Structure

- Statistics Act (Central Statistics Office)
- SEI Act
- EU Energy Statistics Regulation
- · National Oil Stocks Levy
- EU Energy Services Directive
 - Statutory Instrument S.I. No. 542 of 2009
- Electricity & Gas Price Transparency Directive



Legal Structure

- SEI Act
 - (2) The Authority shall have all such powers as are necessary for or are incidental to the performance of its functions under this Act, including—
 - (a) co-operating with the Central Statistics Office and acting as an agent of that Office in relation to matters related to the functions of the Authority;
 - (b) the compilation, extraction and dissemination of information and projections relating to energy production and use (including implications relating to the sourcing, transformation, transmission, distribution and emissions thereof);



Legal Structure

- EU Energy Services Directive (S.I. No. 542 of 2009)
 - Provision of information by energy suppliers.
 - 6. (1) SEI may request that an energy supplier provide to it, not more than once each year, aggregated statistical information on that energy supplier's final customers, including such detail and in such format as SEI may specify. An energy supplier shall comply with a request made under this paragraph.
 - (2) In making a request pursuant to paragraph (1), SEI-
 - (a) shall request-
 - (i) such information that, in its view, is sufficient to enable it to properly design and implement energy efficiency improvement programmes and to promote and monitor energy services and other energy efficiency improvement measures, and



Legal Structure

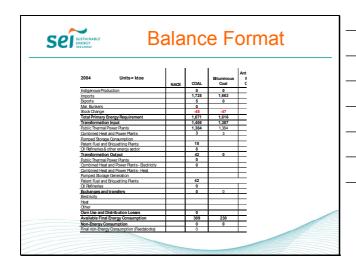
- EU Energy Services Directive (S.I. No. 542 of 2009)
- Provision of information by energy suppliers.
 - (ii) current information on final customer consumption, including, where applicable, load profiles, customer segmentation and geographical location of customers,
 - (b) may request historic information, of a similar character to that specified in subparagraph (a), and (c) shall preserve the integrity and confidentiality of information that is either of private character or commercially sensitive.
 - (3) Where an energy supplier fails to comply in full with a request under paragraph (1) within a period of 6 weeks, or such other longer period as SEI may specify in the request, SEI may apply to the High Court for an order directing the energy supplier concerned to comply with the request.

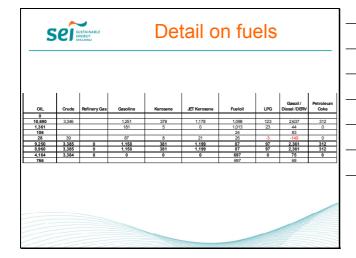


Data Collection

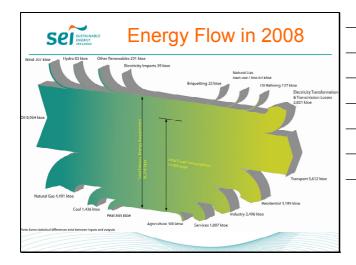
- · Questionnaires to main suppliers
 - Oil, gas, solid fuels, renewables, electricity generators
 & suppliers
- Data collected in physical units
 - tonnes, litres, cubic metres, TJ
- · Results in high level aggregation of energy use

			Database											
	Α	B	Г с	I D	F	F	0	R I	s	т Г	0.1	v		
1	Unit: TJ	Actor	Activity	Energy	Units		2000	2001	2002	2003	2004	20		
	Energy Supply	Pacion	Padavity	Licity	Crinto		2000	2001	2002	2000	2004	20		
	Primary Energy Production		+	_	+				_	_				
4	- Ind. Production	_	+	+	+		-		_	-				
5	Other Bluminous Coal	irl	pro	hit	ktonne		0	0	0	0	0			
3	Cone Burnings coal Post	id	pro	nea	ktonne		4808	4357	2870	5.290	4.395			
7	Miled Peat	irl	pro	mpe	ktonne		4249	3789	2302	4724	3829	33		
8	Sod Peat	id	pro	spe	ktonne		559	568	568	566	566	5		
9	Natural Gas	irl	pro	088	cubic metre		1186	815	838	673	855	5		
10	Hydro (excluding pump storage)	irl	pro	hvd	GAh		847	596	912	598	630	631.		
11	Wind	irl	pro	win	GMh		244	334	388	454	655	1111		
12	Romass . Whod	id	pro	woo	T.I		5695	6365	6365	6699	7704	77		
13	Bornass - Wood Waste	irl	nro	wow	10		5000	0000	0000	0000	7704			
14	- Bornass - Other Solid Waste	irl	pro	OSW	_					_	_			
15	Bogas Landfill Gas	id	pro	lfa	T.I		988	1005	803	687	835	1.0		
16	Blogas - Sewage Studge Gas	irl	pro	98Q	T.I		500	1000	800	190	202	2		
17	- Biogas - Other Biogas	irl	pro	obi	13		180	180	188	185	213	2		
18	. Tallow	irl	pro	tal	_		100	100	100	100	213			
19	failur Solar	id	pro	sol	TJ		5	- 5	7	9	12			
en en	Geothermal	id	pro	geo	T.I		7	7	10	2	2			
21	Heat Pumps	id	pro	htp	13		- 4	- 4	10	-4				
22	Foreign Trade		pro	пър	_				_	_	_			
23	- Imports				_				_	_				
24	Bestricity	irl	imn	ele	GMh		169	38	565	1176	1574	20		
25	Cnal	irl	imp	col	ktonne		2631	2919	2750	2485	2.718	20		
	Other Bluminous Coal	iri	imp	bit	ktonne		2587	2833	2687	2,427	2,655	2.6		
26							55		53	57	63			





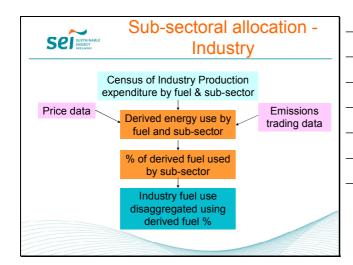


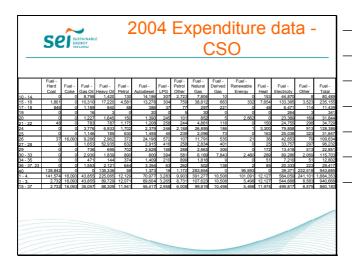


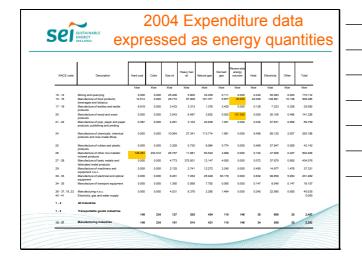


Sub-sectoral allocation - Industry

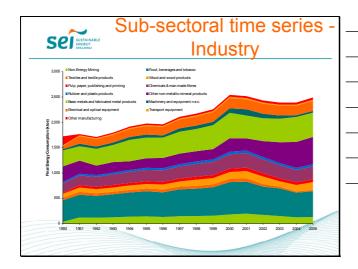
- Until recently based on a 1990 disaggregation
- What information is already being collected or is available?
- Annual Census of Industrial Production
 - Questions on energy expenditure
 - 1998, 2001 and from 2004 onwards energy expenditure questions by individual fuel
- Problem is to convert from expenditure to energy quantity
- Good price data essential
- New Developments







Seline	Sub-sectoral allocation - Industry										
2004 Units=ktoe	NACE	OIL	Crude	Refinery Gas	Gasoline	Kerosene	JET Kerosene	Fueloil	LPG	Gasoil / Diesel / DERV	Petroleum Coke
industry*		972	0	0	0	120	0	367	63	186	234
Non-Energy Mining	13-14	121				3		11	- 1	45	60
Food, beverages and tobacco	15-16	298				37		113	13	37	98
Textiles and textile products	17-18	35				3		9	17	6	0
Nood and wood products	20	7				2		5	0	0	0
Pulp, paper, publishing and printing	21-22	8				1		2	0	6	0
Chemicals & man-made fibres	24	65				12		37	3	13	0
Rubber and plastic products	25	10				0		1	2	6	0
Other non-metallic mineral products	26	50				6		19	3	22	0
Basic metals and fabricated metal products	27-28	228				52		160	13	3	0
Machinery and equipment n.e.c.	29	91				1		3	8	3	76
Bectrical and optical equipment	30-33	49				1		4	2	41	0
Transport equipment manufacture	34-35	4				0		1	1	1	0
Other manufacturing	36 - 37, 19	5	1	1 [1	j l	2	0	1	0
Sub-sector spend by th by CSO in	ne su	b-se	ctor	s' on	the in	dividu	ıal fue				



Separation Transport Disaggregation

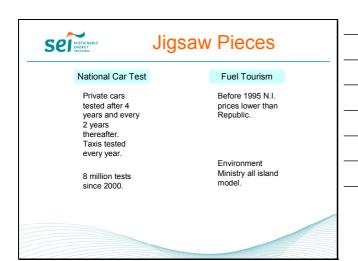
- · Overall quantities of petrol, diesel and electricity were
- Energy use by most modes of transport not known
- Some pieces of the jigsaw were known

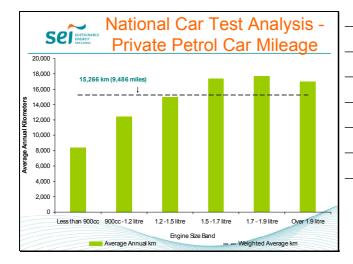
 - Public Bus Passenger Services excise rebate
 - Air kerosene, aviation gasoline...
 - Almost all petrol (gasoline) used by private car but also some taxis, small commercial vehicles and lawn mowers etc...

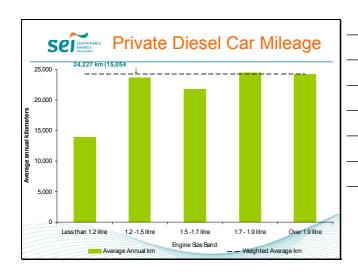


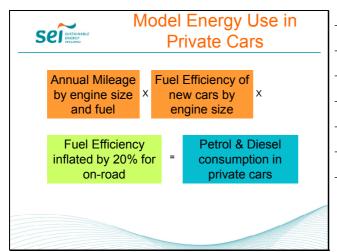
Transport – problems and questions

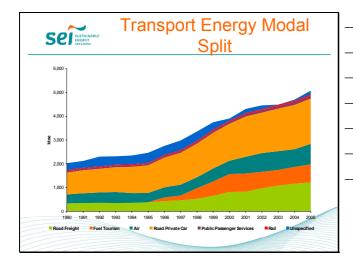
- How to split diesel consumption between private cars and goods carriage
- What's the effect of 'fuel tourism'?
- What's driving transport energy growth private car growth or freight growth…?
- Car Transport are purchasing trends (bigger cars) offsetting technical improvements in car engine efficiency?
- Car Transport are we really driving much more than in other EU Member States?











Sejimum Future Work & Opportunities

- Building Energy Rating
 - Large sample, building performance, floor area etc.
- · Regulated Markets Metered Data
 - Electricity and Gas
- Public Sector
 - Display Energy Rating
 - Electricity & gas meter inventory
 - Other data collection
- Carbon Tax
- Dedicated energy use surveys

