

## MEUG 8 week rolling calendar week starting 21<sup>st</sup> March 2016<sup>1</sup>

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The industry farewelled Judi Jones as the inaugural outgoing Electricity and Gas Complaints Commissioner and welcomed Nanette Moreau as the new Commissioner.	
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ASX have commenced a weekly update report on futures & options market ✓ The EA published their Electricity Market Performance: 2015 Year in Review – the competitive part of the supply chain, both energy and ancillary services, have demonstrated increasing competition and lower costs ✓	
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<sup>1</sup> Updates last rolling calendar for week starting 15<sup>th</sup> February 2016.

MEUG rolling calendar from week starting 21 <sup>st</sup> March 2016	Status	Mar-16	Apr-16	May-16	Notes, long-term timeline.
<b>Political and legislative</b> <a href="#">House sitting programme</a> 3 days each week from:		29	05, 12	03, 10, 24, 31	
<b>Policy and governance</b> MBIE information and forecasting: ~ NZ Energy Quarterly March quarter 2016 ~ <a href="#">Sales based elec. Costs for residential</a> – next publication ~ <a href="#">Quarterly Survey of Domestic Elect. Prices</a> – next publication ~ Electricity Demand & Generation Scenarios MBIE considering subs on <a href="#">targeted Commerce Act review</a> MBIE & ENA Smart Grid Forum – meetings ~ John Scott presentation, Smart Grids – Beyond the walled garden MBIE: IEA In Depth Review of NZ visit – start/end Office of the Auditor General – perf. audit of publicly owned EDB MfE: ETS review: subs on remaining matters due EA governance and market monitoring: ~ EA Board meetings ~ EA consideration of subs on review of participant audit regime ~ EA Board to consider subs on <a href="#">code A</a> to align market service provider roles with EA statutory objective and specific changes to System Operator role ~ Market operation Service Provider (MOSP) agreements ♦ New contracts with NZX take effect ♦ Registry MOSP tender closed 26 <sup>th</sup> February 2016. ~ Regulatory Managers & Consumer Reps meetings ~ Consultation on review of advisory groups' charter and terms of reference ~ <a href="#">SRC</a> meetings (dates not known and and ♦ Nominations close for SRC (household rep) ~ <a href="#">WAG</a> meetings (dates not known) and members ~ <a href="#">RAG</a> meetings (dates not known) and members EECA: ~ NZ Energy Efficiency & Conservation Strategy – re-fresh ~ EECA levy: MEUG follow up OIA request ~ EECA awards 2016	June tba tba  tba new new  tba  tba  tba new new		12  25  30  08 Apr  14 Apr  22   reply due	02     04 May   01   to May   18	Last publication <a href="#">NZ Energy Quarterly, December quarter 2015</a> 17 <sup>th</sup> March 2016 Last publication to <a href="#">December 2015</a> Last publication to <a href="#">15<sup>th</sup> February 2016</a> See "Transmission" page. Subs closed 9 <sup>th</sup> February.  Wellington  See more details EDB page. Subs on priority matters closed 19 <sup>th</sup> February.   For (1) Pricing Manager (2) Clearing Manager (3) Reconciliation Manager and (4) WITS manager EA Board decides June. New contract to take effect 1 <sup>st</sup> May 2017. GIC also tendering. EA and GIC will consider joint RFPs.  Appointee to start May 2016. Nominations sought for 4 members (existing members terms expire end June) Nominations sought for 4 members (existing members terms expire end June)
<b>MEUG governance</b> - Monthly meetings		23	13	18	

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<b><u>Seminars and other</u></b>					
<a href="#">NZ Petroleum Conference 2016</a>		20-22			Auckland
University of Auckland Business School, Energy Matters 2016 lecture series, Dr Kiti Suomalainen and Dr Tony Downward, Disruptive technologies and solar potential in Auckland	new	30			Auckland
MBIE & ENA Smart Grid Forum: John Scott presentation, Smart Grids – Beyond the walled garden.	new		12		Wellington
NZWEA workshop, the electricity system in 2035	new		14		Wellington.
<a href="#">Energy Management Assoc. of NZ conference 2016</a>				17-18	Auckland
EECA awards				18	Auckland
<a href="#">Conferenz, 2016 NZ Intelligent Infrastructure summit</a>	new				13 <sup>th</sup> and 14 <sup>th</sup> June, Auckland
The Deloitte Energy Excellence Awards					10 August, Auckland
<b><u>Training</u></b>					
<a href="#">Energy Link training courses</a>				Auckland	
~ Introduction to the electricity market				10	Wellington 19-Jul
~ Nodal pricing of electricity				11	Auckland 18-Oct
~ Hedging electricity				12	Wellington 20-Jul
					Auckland 19-Oct
					Auckland 21-Jul
					Auckland 20-Oct
<a href="#">Government Economics Network</a> training:	new				
~ Intro to behavioural economics for policy		21-22			Dr Marcus Pelenur, MBIE
~ Intro to Cost-Benefit Analysis			11-12		Dr Peter Mumford, Mark Steel, Karl Simpson and Jonathan Ayto
~ Intro Microeconomics for Policy Analysis					15, 18, 22, 25 August. Dr Veronica Jacobsen, Treasury.
~ Productivity Growth for Maximum Wellbeing					13, 14, 20, 21 September. Dr Patrick Nolan
~ Intro to Economic Evaluation					27-28 October. Dr George Rivers
NZX Understanding Electricity Markets training courses		30-31			2-3 Jun, 17-18 Aug, 27-28 Oct. All Wellington except Auckland in August.

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<b><u>Common quality</u></b>					
EA to consider subs (closed 15 <sup>th</sup> February) on <a href="#">Proposed changes to policy statement (for common quality)</a> .					Bi-annual review process. Good improvements. No significant disagreements. EA expect to gazette new policy statement at earliest May 2016.
<a href="#">Proposal to allocate IR costs nationally</a> – subs due	new		26		
New extended reserves regime:					Annual cost/payments expected to be ~\$5m pa. Go live in 2017.
~ 3 <sup>rd</sup> workshop by EA, NZX System Operator	tentative		26, 28		Tentative dates for Wellington and Auckland workshops respectively.
~ Consultation on technical requirements schedule					June-July 2016 (dates may be revised).
~ Consultation on selection methodology	delayed				August to September 2016.
~ Formal consultation on procurement proposal					2017Q1
Reserves and Frequency Management (RFM) programme					Joint <a href="#">SO web site</a> and <a href="#">EA web site</a> activity
~ RFM Engagement Group meeting					Progress not known.
~ IR: interim arrangements until NIRM implemented					HVDC FIR sharing started Dec-14.
~ IR: Full National IR Market (NIRM) implementation					SO report to EA October 2016 on review of IR markets including proof of concept on options such as utilising and encouraging faster reserve using area under the curve approach.
Generator fault ride through – EA Board to consider code Δ.			08		Code Δ then gazetted if OK.

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<b>Security of supply</b>					
Grid owner investigations into <a href="#">Upper NI generator decommissioning</a>					
~ Upper NI dynamic voltage stability limits	new				TPNZ to advise timeline. Will use CC Major Capex proposal process (ie for > \$20m capex proposals).
~ Possible dynamic voltage stability limits in Waikato	new				
~ Possible risk, but less than above items, with static voltage limits	new				
~ Continue current investigations on options to remove existing 100 kV Bunnythorpe-Mataroa thermal constraint	new				Other lower NI thermal constraints may arise once market clarifies later this year decisions on Rankine units. Then those constraints will be investigated. TPNZ to initiate industry consultation on proposal in 2016.
~ Reverse plan to close Arapuni bus split in 2017	new				
System Operator consideration of subs (closed 23 <sup>rd</sup> February) on 2016 <a href="#">Security of Supply Annual Assessment</a>					
System Operator consideration of subs (closed 12 <sup>th</sup> February) on draft revisions to the Emergency Management Policy and System Operator Rolling Outage Plan	tba				
National Winter Group annual forecasts					Preliminary analysis published 15 <sup>th</sup> January

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<b>Wholesale Market</b>					
ASX NZ futures and options market:					
~ ASX futures & options users' group meeting				May	Wellington
~ ASX to evaluate ASX NZ Electricity training programme opportunity					Update to user's group meeting May 2016.
~ Cap futures product on ASX development road map for second half 2016 pending launch of new ASX derivatives platform.					Update to user's group meeting May 2016 on discussions on cap futures contract spec design with customers.
<u>FTR</u> monthly primary and <u>variation</u> auctions		9, <u>16</u>	13, <u>20</u>	10, <u>17</u>	<u>FTR calendar</u>
EA hedge market development:					
~ Implement establishment and market making for cap products per decision paper of 9 <sup>th</sup> December					Implementation through to June. See ASX proposal above for cap product on development road map H2 1016.
~ ASX/AEMO design study report on possible offsetting ASX & spot market prudential requirements - report published		Mar			Once published EA to consider applicability for NZ.
~ Implement recommendations from <u>WAG Hedge Market Development paper 4<sup>th</sup> August 2015</u> not listed elsewhere					Pending with immediate focus on facilitating the trading of standardised cap products and voluntary market making of those products.
~ Wholesale market information – review of clause 13.2 exclusions – WAG considering					WAG discussion paper possibly July to August.
~ Improving public access to fuel quantity information					EA to announce programme timeline.
Other EA wholesale market work:					
~ EA considering subs (closed 1 <sup>st</sup> March) on <u>DD during tight market conditions</u>		01			MEUG support Code Δ other than submitted \$15k/MWh bid cap should be higher.
~ Earlier gate closure, revised bid & offer provisions. Decision paper published 17 <sup>th</sup> February 2015					System Operator begins design work July 2016 and that will inform timeline. Code Δ will be gazetted once timeline firmed up. Code Δ expected to come into effect 2017.
~ Applications for shorter post-default exit period (Part 14)	tba				
~ <u>Spot market review</u> :					Early 2016.
• Real time pricing (RTP) – EA Board to consider SO report 1 <sup>st</sup> March and if OK will publish for consultation March to April		01			Four RTP options being considered: (1) Ex-ante 30-min price (2) Dispatch-based prices (3) Ex-post 5-min prices (4) Ex-post 30-min price
• Investigation into an hours-ahead market	tba				System Operator to commence work on a report. Consultation probably July or August.
~ Offer and dispatch: wind generation offers – WAG to make recommendation directly to EA Board					WAG expects to make recommendations directly to the EA Board by end of June.

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<b><u>Markets general</u></b>					
Nga Awa Purua JV RFP to purchase CfD's, successful applicants notified			01		≤10MW blocks up to 35MW pa, 2 to 5 years from 1 <sup>st</sup> July 2016
MEL's replacement Brooklyn wind turbine installed			Apr		New turbine 900 kW replacing old 225 kW unit. Energy 3 have purchased old unit and once a site found re-commission it.
Genesis new CEO, Marc England, commences	new			May	
<b><u>Retail Market</u></b>					
<a href="#">Retail Data project</a>					
~ Phase 1, access to consumption data, phase 2, access to tariff data went live 1 <sup>st</sup> February 2016. EA considering ways to communicate these policy outcomes	ongoing				Possible communicate as part of winter What's My Number campaign
~ Implementation of standardised file format for supplying tariff data:					
<ul style="list-style-type: none"> <li>• Industry working group meetings</li> <li>• Consultation</li> <li>• EA Board decision</li> </ul>					Inaugural meeting held 8 <sup>th</sup> March. June to July August
~ Phase 3: Access to monitoring data					Work to commence year starting 1 <sup>st</sup> July to assess if should proceed.
RA work on effects of low fixed charges regulations – EA Board to consider RAG report in March.	tba				
RAG work on domestic contracting arrangements	ongoing				Covers medically dependent consumers.
<a href="#">Secondary networks</a> – Being considered by RAG	ongoing				
CC reviews of standard form contracts in terms of the Fair Trading Act 2015 – review of electricity retail sector					Later in 2016. CC first reviewed Telco sector. Other standard form contracts to be reviewed this year are for credit and gym sectors.

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<b>Transmission</b>					
Transpower update Transmission Tomorrow	delayed			May	Update of inaugural version published June 2012.
TPM review – EA options and decision paper published	delayed			< mid-May	
Electricity Demand & Generation Scenarios – MBIE to publish inaugural EDGS	delayed		mid Apr		
Transpower consider customer feedback due on draft Transpower Works Agreement, subs closed 28 <sup>th</sup> February.					The draft Transpower Works Agreement is intended to combine the existing Customer Investment Contract, Detailed Solution Development and Minor Works Agreements.
Shoulder line ratings apply	advised	From 15	.....	to 10	



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<b><u>Distribution</u></b>					
Office of the Auditor General (OAG) –publicly owned EDB work: ~ “Energy lines companies: Managing critical infrastructure” ~ Results of the 2014/15 audits					Timing of reports not known but probably early to mid-2016 Part of OAG 2015/16 theme reports on “investment and asset management”
EDB annual Information Disclosures – CC selected analysis	tba				
Distribution pricing: ~ Distributed Generation Pricing Principles – EA consult as part of TPM package (refer Transmission above)	delayed			< mid-May	This consultation includes ACOT payments.
~ EA considering subs on, <a href="#">Implications of evolving technologies for pricing of distribution services</a> - next steps to be advised.	tba				Submissions closed 2 <sup>nd</sup> February 2016. EA received > 54 submissions. Possibly EA Board will consider in June/July then announce next steps. ENA asked for extension from original due date of 4 <sup>th</sup> April.
<a href="#">Proposed Default Distribution Agreement (DDA)</a> subs to EA	delayed		19		
<a href="#">Orion transition CPP to DPP 2019/20</a> subs/x-subs to CC	new		08, 22		
Improving communication of outages					Important issue for MEUG members.
Orion’s transition from CPP to DPP sibs/x-subs	new		08, 22		
<a href="#">IM reviews for electricity, gas and airfield monopolies</a>					
~ Cost of capital issues engagement topic: ♦ Subs due on Dr Lally’s advice to CC	new	24			Subs closed 5 <sup>th</sup> February on cost of capital update paper
~ Opportunities to improve the way DPP and CPP work together: ♦ Subs due on CC emerging views	new	24			Also called “Cost-effectiveness of the rules and processes for CPP applications”
~ CC to publish next process update including next steps on: ♦ Consumer engagement (Part 4 in general topic) ♦ Emerging technologies – cost allocation ♦ Emerging technologies – risk of partial capital recovery ♦ Emerging technologies – Efficient investment incentives					CC yet to advise next steps in any ahead of mid-June draft decision. Submissions on last consultation closed 4 <sup>th</sup> February. CC consulting certain parties on views.
~ Subs due on CC emerging views on form of control	new	24			CC consulting certain parties on views.
~ Airports: ♦ Airports WACC percentile. ♦ Airports profitability assessment workshop #2	confirmed		26		Submissions on last consultation (Professor Yarrow’s advice) closed 11 <sup>th</sup> March.
~ New work on Related Party Transactions announced 29 <sup>th</sup> February 2016.	new				This work will run in parallel to current IM review. Output of work may affect future ID, IM and or compliance processes.
~ Draft decision and reasons paper published/consulted on					Mid 2016Q2
~ Final decisions on review of all IM except Transpower Capex IM					Dec-16
~ Transpower Capex IM review					After 2016
Gas pipeline services (GPS) DPP 2017-2022 reset: ~ Subs due on IM-related topics in paper of 29 <sup>th</sup> February.	new	24			
~ Subs due on balance of topics in paper of 29 <sup>th</sup> February.	new	30			
~ GPS DPP reset completed	new				31 <sup>st</sup> May 2017

Frequently used abbreviations, part 1 of 2:					
Δ	change, or if referring to the Code, amendment	DSDs	Detailed Solution Design Agreements (TPNZ)	HHI	Herfindahl-Hirschman Index
AEMO	Australian Energy Market Operator	DUML	Distributed unmetered load	HHR	Half-hourly reconciliation (re data or meters) cf. NHH
AMI	Advanced metering infrastructure	DR	Demand Response	ICP	Individual Connection Point
AMWEES	Alternative methodologies (IM) with equivalent effect	EA	Electricity Authority	ID	Information Disclosure
AoG	All of Government	EC	Electricity Commission (predecessor to EA)	IDD	Information Disclosure Determination
AOPO	Asset Owner Performance Obligations	ECE	Extended Contingent Event	IHD	In-home display ie smart meter display
APEV	Assoc. for the Promotion of EV	EEA	Electricity Engineers' Association	IM	Input Methodology
APR	Annual Planning Report (Transpower's)	EECA	Energy Efficiency & Conservation Authority	IPP	Individual Price-Quality Path regulation
ATH	Approved test house	EDB	Electricity Distribution Business	IR	Instantaneous Reserves
AUFLS	Automatic Under-frequency Load Shedding	EDF	Energy Data File (published by MBIE)	IRIS	Incremental Rolling Incentive Scheme
AWATEA	Aotearoa Wave & Tide Energy Assoc.	EDGS	Electricity Demand and Generation Scenarios	IWA	Ireland, Wallace & Assoc.
BEC	BusinessNZ Energy Council	EGCC	Electricity & Gas Complaints Commission	LDA's	Line Deviation Agreements (TPNZ)
BIM	Briefing for Incoming Ministers	EIEPs	Electricity Information Exchange Protocols	LEANZ	Law & Economics Assoc. of NZ
BSDR	Black's Simple Discount Rule	EIH	Expected Interruption Hours (for AUFLS)	LFC	Low fixed charges regulations
CAN	Customer Advice Notice	EMANZ	Energy Management Assoc. of NZ	MBIE	Ministry of Business Innovation & Employment
CAPM	Capital Asset Pricing Model	ENA	Electricity Networks Association	MDC	Medically dependent consumer
CBA	Cost Benefit Analysis	EPOC	Electric Power Optimisation Centre	MEP	Meter equipment provider
CC	Commerce Commission	ER	Extended Reserves	MEPS	Minimum Energy Performance Standards
CCS	Customer Compensation Scheme	ERANZ	Electricity Retailers Assoc. of NZ	MFK	Multiple FK
CE	Contingent Event	ERM	Extended Reserves Manager	MGUG	Major Gas Users' Group
CEN	Contact Energy	ETS	Emissions Trading Scheme	MM	Market making
CfD	Contracts for differences	EV	Electric Vehicles	MRP	Mighty River Power
CIC	Customer Investment Contracts (TPNZ)	FIR	Fast Instantaneous Reserve	MUoSA	Model Use of System Agreement
CMP	Capacity Measurement Period	FMCA	Financial Markets Conduct Act 2013	n.a.	not applicable
COB	Close of business	FK	Frequency keeping	NHH	Non-half-hourly read, cf. HHR
Code	Electricity Industry Participation Code 2010	FKC	Frequency keeping controller	NI	North Island
CPP	Customised Price-Quality Path	FO	Franks Ogilvie	NIC	New Investment Contracts (with Transpower)
C&S	Clearing & Settlement (usually refers to Part 14)	FTR	Financial Transmission Rights	NIRM	National IR Market
CSF	Critical Success Factor	FPVV	Fixed price variable volume	NIU	National Infrastructure Unit (part of Treasury)
CUWLP	Clutha-Upper Waitaki Lines Project	GEIP	Good Electricity Industry Practice	NOI	Notice of Intention (formal notice by CC)
DCLS	Dispatch-capable load station (for DD "market")	GETS	Government Electronic Tender Service	NPV	Net Present Value
DD	Dispatchable Demand	GNE	Genesis Energy	NRS L/S	Non responsive schedule (L=long, S=short)
DDA	Default Distribution Agreement	GPS	Gas Pipeline Services	NZAS	NZ Aluminium Smelters
DG	Distributed generation	GTB	Gas Transmission Businesses	NZCID	NZ Council for Infrastructure Development
DPP	Default Price-Quality Path regulation	GXP	Grid Exit Point		

Frequently used abbreviations, part 1 of 2:					
NZIER	NZ Institute for Economic Research	SoO	Statement of Opportunities (published by EC)	TWA	Transmission Works Agreement
NZGA	NZ Geothermal Association	SOROP	System Operator Rolling Outage Plan	UFM	Under-frequency management
NZPC	NZ Productivity Commission	SoS	Security of supply	UoSA	Use of System Agreement
OAG	Office of the Auditor General	SOSPA	System Operator Service Provider Agreement	VCT	Vector
OIA	Official Information Act.	SDP	Scheduling, Pricing & Dispatch (obj., model)	VoLL	Value of Lost Load
PROPS	Participant Rolling Outage Plans	SM	Selection Methodology (for extended reserves)	vSPD	vectorised SPD model
PRS L/S	Price response schedule (L=long, S=short)	SME	Small or medium enterprise	VUW	Victoria University of Wellington
PUP	Process Update Paper	SRC	Security and Reliability Council	WACC	Weighted average cost of capital
QSDEP	Quarterly survey of domestic energy prices (MBIE)	SSDG	Small scale DG (<10kW)	WAG	Wholesale Advisory Group, convened by EA
RAG	Retail Advisory Group, convened by EA	subs	submissions	WAPC	Weighted Average Price Cap
RFM	Reserves & Frequency Management programme	SWOT	strengths, weaknesses, opportunities & threats	WEC	World Energy Council
RTD	Real time dispatch	tba	to be advised	WDS	Week-ahead dispatch schedule
RTP	Real time pricing	T&Cs	Terms and conditions of a contract	WIAL	Wellington International Airport Ltd
SBL-CAPM	Simplified Brennan-Lally CAPM	TOU	time-of-use (metering)	wip	work in progress
SI	South Island	TPM	Transmission Pricing Methodology	WITS	Wholesale Information & Trading System
SIR	Sustained Instantaneous Reserve	TPNZ	Transpower	w/s	week starting
SO	System Operator	TPW	Trustpower	x-sub	cross-submission
		TRS	Technical Requirements Schedule (for ER)		