

WESTERN AUSTRALIA

LEGISLATIVE ASSEMBLY

QUESTIONS ON NOTICE

No. 211

THURSDAY, 20 AUGUST 2020

Memo: The electronic publication of Questions on Notice as part of the Notice Paper is available on the Parliament's Internet site at www.parliament.wa.gov.au.

Questions postponed from previous sittings: -

Tuesday, 19 May 2020

- 6136. Ms M.J. Davies to the Minister for Police; Road Safety
- 6148. Ms M.J. Davies to the Minister for Water; Forestry; Innovation and ICT; Science; Youth

Wednesday, 20 May 2020

- 6160. Mr P.A. Katsambanis to the Minister for Police; Road Safety
- 6162. Dr D.J. Honey to the Minister for Water

Thursday, 21 May 2020

- 6174. Mr I.C. Blayney to the Premier; Minister for Public Sector Management; State Development, Jobs and Trade; Federal-State Relations

Tuesday, 26 May 2020

- 6183. Mr I.C. Blayney to the Minister for Water

Wednesday, 17 June 2020

- 6247. Mr W.R. Marmion to the Minister for Water; Forestry; Innovation and ICT; Science; Youth
- 6265. Mr W.R. Marmion to the Minister for Water; Forestry; Innovation and ICT; Science; Youth

Tuesday, 23 June 2020

- 6272. Mr I.C. Blayney to the Premier; Minister for Public Sector Management; State Development, Jobs and Trade; Federal-State Relations

Tuesday, 11 August 2020

- 6325. Ms L. Mettam to the Minister for Transport
- 6326. Ms L. Mettam to the Minister for Transport
- 6327. Ms L. Mettam to the Minister for Commerce

- 6328. Ms L. Mettam to the Minister for Industrial Relations
- 6329. Ms L. Mettam to the Minister representing the Minister for Ports
- 6330. Mr R.S. Love to the Minister for Transport; Planning
- 6331. Mr A. Krsticevic to the Minister for Housing
- 6332. Mr D.C. Nalder to the Minister for Housing
- 6333. Mr D.T. Redman to the Minister for Emergency Services; Corrective Services
- 6334. Ms L. Mettam to the Minister for Police
- 6335. Mr A. Krsticevic to the Minister for Community Services
- 6336. Mr A. Krsticevic to the Minister for Community Services
- 6337. Mr A. Krsticevic to the Minister for Community Services
- 6338. Ms L. Mettam to the Minister for Forestry
- 6339. Ms L. Mettam to the Minister for Forestry
- 6340. Mr A. Krsticevic to the Minister for Community Services
- 6341. Mr A. Krsticevic to the Minister for Community Services
- 6342. Mr A. Krsticevic to the Minister for Community Services
- 6343. Mr A. Krsticevic to the Minister for Community Services
- 6344. Mr A. Krsticevic to the Minister for Community Services
- 6345. Mr A. Krsticevic to the Minister for Transport
- 6346. Mr A. Krsticevic to the Minister for Community Services
- 6347. Mr D.T. Redman to the Minister for Energy
- 6348. Mr A. Krsticevic to the Minister for Housing
- 6349. Mr S.K. L'Estrange to the Minister for Emergency Services; Corrective Services
- 6350. Mr S.K. L'Estrange to the Minister for Emergency Services; Corrective Services
- 6351. Mr S.K. L'Estrange to the Minister for Emergency Services; Corrective Services
- 6352. Mr S.K. L'Estrange to the Minister for Emergency Services; Corrective Services
- 6353. Mr D.T. Redman to the Minister representing the Minister for Education and Training
- 6354. Mr D.T. Redman to the Minister for Finance
- 6355. Mr A. Krsticevic to the Minister for Police
- 6356. Mr A. Krsticevic to the Minister for Community Services
- 6357. Mr S.K. L'Estrange to the Minister for Emergency Services; Corrective Services
- 6358. Mr A. Krsticevic to the Minister for Community Services
- 6359. Mr A. Krsticevic to the Minister for Community Services

Wednesday, 12 August 2020

- 6360. Mr S.K. L'Estrange to the Minister for Emergency Services; Corrective Services
- 6361. Mr D.T. Redman to the Minister for Energy

Thursday, 13 August 2020

- 6362. Mr A. Krsticevic to the Minister for Community Services
- 6363. Mr A. Krsticevic to the Minister for Housing

Questions listed for this sitting: -

6364. Mr D.T. Redman to the Minister for Energy:

I refer to private aggregators, who are able to pull together private network assets in a way that allows them to participate in an emerging market, and ask:

- (a) What is the extent of participation of aggregators in the South West Interconnected System (SWIS);
- (b) Can the Minister show where these aggregators are operating;
- (c) What limitations does government put on the interaction of aggregators and the grid network, including matters of managing grid stability; and
- (d) What are the rules imposed by government/utilities in respect to the establishment/operations of aggregators?

6365. Mr D.T. Redman to the Minister for Energy:

- (1) Can the Minister outline the full extent of government support behind the meter batteries installed on either the Western Power or Horizon networks:
 - (a) Can the Minister show where these are, and the level of support that has come from government?
- (2) Where government has made investments to support and/or directly purchase behind the meter batteries, what has been the cost of these investments and where have they been made?
- (3) What have been the inverter standards that have been matched to these behind the meter battery investments:
 - (a) Do these inverter standards have communications functionality, allowing for aggregation as a virtual power plant;
 - (b) If not, why not; and
 - (c) If yes, what is the government's plan for utilisation of this functionality?
- (4) Given the significant interest from consumers in behind the meter battery technology and the likely reduction in price for such installations, can the Minister outline any network risks in such installations, and whether it is likely to help or hinder network stability?

6366. Mr D.T. Redman to the Minister for Energy:

I refer to the integration of renewable technology including batteries into the South West Interconnected System (SWIS) and Horizon networks, and ask:

- (a) Can the Minister list the grid scale batteries that are presently on the grid networks of both Horizon and Western Power;
- (b) Can the Minister outline the benefits of these grid scale batteries to the networks at the points of integration into the network;
- (c) Of the grid scale batteries integrated into the network, which ones have a level of community participation either by direct investment or by better utilisation of rooftop solar photovoltaic (PV), with benefits back to the consumer;
- (d) As a Tesla battery was recently installed in Margaret River, can the Minister outline other Tesla batteries that have been installed as a part of the same investment initiative:
 - (i) In respect to these batteries, on what basis were the sites chosen for such investments;
 - (ii) When were the Tesla batteries purchased; and
 - (iii) Were other battery technologies/companies offered the same opportunity to secure the supply contract;

- (e) Can the Minister describe the full suite of battery technologies (including chemistries) utilised by both Western Power and Horizon;
- (f) What is government policy in respect to utilisation of a diversity of battery technologies/chemistries as we move into rolling out more grid scale batteries into our state grid networks; and
- (g) Does government have a vanadium flow battery in its suite of battery chemistries installed in our grid networks:
 - (i) If so, where is it, and when was it installed?

KIRSTEN M. ROBINSON
Clerk of the Legislative Assembly
