

iViTi is a small LED lighting company set up 2011.
In Jan 2014, the Lighting Industry Association signposts the inventor of the following two, unique innovations to us at iViTi. We have been working since then to bring the **iViTi ON** and **iViTi AdrON** to market readiness (in the UK). The two innovations are covered by patents in the UK, Europe, USA, Japan, South Korea and China.



www.ivition.co.uk

www.adron.co.uk

@iViTiON

20/01/2016

iViTi ON

STAYS ON

WHEN THE

POWER

IS GONE



iViTi ON Safety Light Bulb – a B to C product, in final testing.

iViTi ON is a standard, domestic, LED, GLS light bulb which replaces an existing bulb but with iViTi ON, when there's a power cut, the light stays ON. Through patented impedance monitoring, the bulb detects when power is lost and automatically switches power source to its own internal battery, contained within the bulb casing (patented). In battery mode the light can be switched off and on as required providing an additional 3 hours of light. When the power comes back on, the lamp returns to mains power operation and automatically recharges the battery ready for the next event. The lamp is 80% energy saving and has Worldwide application.

iViTi ON is capable of much more. Patented Grid frequency monitoring technology (see AdrON below), can be installed into the iViTi ON lamp, meaning that at a static trigger Grid frequency, the lamp will temporarily switch to internal battery, thereby taking pressure off the Grid at critical moments in a predictable and controlled way. iViTi ON offers a no impact, low cost, automatic, immediate, predictable and highly repeatable solution to Grid frequency events.

Digital mobile technology can be incorporated into the bulb's operation, thereby maximizing the consumer potential within the product through a Smart platform. With constant power within a ubiquitous household item, iViTi ON offers tremendous embedded IoT potential - wifi extension, e-health, security etc. etc. We have developed the concept of a battery within a light bulb which opens up a world of innovation only currently achievable when a light bulb receives Grid power. These innovations are covered by patents in UK, Europe, USA, Japan, South Korea and China.

Markets

DNOs - Energy Distributors & their Vulnerable Customers

Five of the UK's Distribution Network Operators have already ordered 560 iViTi ON's for trialing within the households of selected vulnerable customers.

They tell us that following a successful trial, the light bulbs will be provided by them, free of charge, to selected vulnerable customer groups. The **Sales Assumptions** shows a conservative 30% take up with only one bulb allocated per household.

The number of identified vulnerable customers in the UK currently stands at 3,454,000.

Residential Homes, Schools & Housing Associations

We have met many of the operators in these sectors and considerable interest has been expressed in fitting the iViTi ON within the more vulnerable areas not usually covered by emergency lighting, e.g. toilets, communal areas, Resident's rooms, dormitories, classrooms etc.

Retail & International

All the major Retail outlets will be targeted following the launch of the product. No sales are being forecast for the first six months until a better feel is established for the potential of this market sector.

There is considerable International interest from Countries where there is adverse weather and/or Grid Resilience problems eg Africa - especially S.Africa & Ghana, India, Bangladesh, NZ & Australia, Eastern European and Italy.



AdrON

DEMAND RESPONSE IN LIGHTING

***AdrON is Dynamic Demand technology in Lighting -
a B to B product, at working prototype stage.***

AdrON can be incorporated into most commercial LED lighting systems, including street lights.

An innovation that monitors Grid frequency and switches to and from battery operation to take and place pressure off and on the Grid. The lights stay on without change or disruption to the working environment.

The lights also stay on if there's a power cut, creating safer workplaces.

A superfast solution to Grid Energy Balancing during periods of peak & low demand.

Predictable,
Instantaneous &
Undetectable.

Revenue & Saving

The technology has the potential to unlock new regular income revenues :

- By using Grid power at low demand times to re-charge batteries.
- By going off Grid and using battery power at peak demand times.
- Harvesting & re-selling unused pre-purchased energy.

Capacity costs of new buildings can be lowered & peak energy tariffs avoided.

CO₂ Emissions

It is estimated that CO₂ emissions are reduced by between 300–750 tons per annum, per megawatt of unused fossil fuel because coal and oil stations on standby or running inefficiently at part load are not needed as reserve for renewable energy variability.

Awards & Accolades

iViTi ON

SSE online magazine feature :

<http://sse.com/newsandviews/allarticles/2015/02/the-light-that-stays-on-when-mains-power-goes-off/>

Winner of the New Energy Innovation Start-up award from the Energy Innovation Centre EIC :

<http://www.energyinnovationcentre.com/uk-energy-innovation-awards/2015-winners/>

Featured at no 6 in 'TEN TOP DISRUPTIVE ENERGY INNOVATIONS in The TIMES supplement

<http://bit.ly/1LFkurc>

iViTi AdrON

Shortlisted for the 7th European Smart Energy Awards 2016
"Innovation of the Year" (end Jan 2016)

Won an exhibition space at Innovate UK November 2015

Selected to show at Innovation Zone pod at Sustainability Live 2015
<http://www.sustainabilitylive.com/innovation-zone-visitors/>

Included in Delta-ee's Energy Services Innovation list, one of 36 "of the most innovative business models in the energy services space from a long-list of **107** of the most interesting energy innovations present in the global market."

Included in House of Lords Energy Resilience Infrastructure:
<http://www.parliament.uk/documents/lords-committees/science-technology/Resilienceofelectricityinfrastructure/Resilienceofelectricityinfrastructureevidence.pdf> (REI0005) p368

Winners of Co-innovate Conferance 'Pitch Live' <http://coinnovate.co.uk/agenda/pitch-live/>

Our Requirement

An active collaborative partnership with an individual or a corporation who can bring expertise and knowledge of the relevant market place encompassing energy, dynamic response, storage, lighting, safety & retail.