
HOUSE CONCURRENT RESOLUTION

REQUESTING A STUDY OF THE ENVIRONMENTAL AND HEALTH EFFECTS OF
FIFTH-GENERATION TECHNOLOGY.

1 WHEREAS, fifth-generation wireless (5G) technology is
2 intended to provide faster and higher capacity transmissions to
3 carry the massive data load generated by smart devices, the
4 Internet of Things, robotics, artificial intelligence,
5 driverless cars, and other machine-to-machine connections; and
6

7 WHEREAS, 5G technology uses the spectrum in the existing
8 Long-Term Evolution frequency range, commonly known by the
9 acronym LTE, and also includes the higher millimeter wave
10 frequencies never before used for the Internet or cell phones;
11 and
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13 WHEREAS, 5G technology relies on thousands of new small
14 cell antennas that will be clustered lower to the ground and
15 closer to homes and schools; and
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17 WHEREAS, on June 21, 2018, the Governor signed Act 49,
18 Session Laws of Hawaii 2018, which cleared the way for
19 implementation of 5G technology in Hawaii by standardizing the
20 process of 5G small cell deployments; and
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22 WHEREAS, the World Health Organization's International
23 Agency for Research on Cancer concluded in 2011 that
24 radiofrequency electromagnetic fields are possibly carcinogenic
25 to humans (Group 2B); and
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27 WHEREAS, the Council of Europe published a report on May 6,
28 2011, on the dangers to public health of electromagnetic fields,
29 calling for lowering the exposure limits; and



1 WHEREAS, United States National Institutes of Health
 2 National Toxicology Program studies have found increased rates
 3 of tumors in laboratory animals exposed to radio frequency
 4 radiation; and

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 6 WHEREAS, studies have found potential negative health
 7 effects associated with 5G technology radiation; and

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 9 WHEREAS, the countries of Switzerland and Slovenia, along
 10 with the city of Brussels, Belgium, have halted 5G deployment
 11 due to health concerns; and

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 13 WHEREAS, due to the uncertainty of the effects of 5G
 14 technology on biological life, a review should be conducted on
 15 the scientific research regarding whether 5G technology could
 16 affect the health of Hawaii's residents and the surrounding
 17 wildlife; now, therefore,

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 19 BE IT RESOLVED by the House of Representatives of the
 20 Thirtieth Legislature of the State of Hawaii, Regular Session of
 21 2020, the Senate concurring, that the Legislative Reference
 22 Bureau is requested to conduct a study that summarizes the
 23 salient points of existing published reports and studies from
 24 reputable sources that have evaluated the effects of 5G
 25 technology, including millimeter wave frequencies, on biological
 26 life, highlighting any information that could apply to
 27 biological life of Hawaii; and

28
 29 BE IT FURTHER RESOLVED that the Legislative Reference
 30 Bureau is requested to submit a report of its findings and
 31 recommendations, including any proposed legislation, to the
 32 Legislature no later than twenty days prior to the convening of
 33 the Regular Session of 2021; and

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 35 BE IT FURTHER RESOLVED that a certified copy of this
 36 Concurrent Resolution be transmitted to the Director of the
 37 Legislative Reference Bureau.

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OFFERED BY: Tim Wain

MAR - 3 2020



H.C.R. NO. 80

Amy Rouse

John N. [Signature]
[Signature]

MAR - 3 2020

