Session of 2022

SENATE BILL No. 353

By Committee on Utilities

1-19

1	AN ACT concerning wind generation facilities; relating to construction
2	and setback requirements; requiring local boards of county
3	commissioners to approve applications for construction; establishing
4	certain notification and health and safety requirements; establishing
5	certain operating conditions for existing facilities.
6	
7	WHEREAS, This act shall be known and may be cited as the Kansas
8	industrial turbine health and safety standards act.
9	Now, therefore:
10	Be it enacted by the Legislature of the State of Kansas:
11	Section 1. (a) (1) No facility shall be constructed within this state
12	unless the setback distance from the each wind turbine of the facility is not
13	less than 10 times the system height or 5,280 feet, whichever is greater,
14	from any of the following properties:
15	(A) Nonparticipating landowner's property;
16	(B) public building;
17	(C) airport;
18	(D) federal wildlife refuge;
19	(E) public hunting area; or
20	(F) public park.
21	(2) The setback distances required pursuant to this section shall be
22	measured from the ground-level center of the turbine to the nearest
23	property line of any of the properties described in paragraph (1).
24	(b) Prior to the construction of any facility, the board of county
25	commissioners of any county that contains any property within the setback
26	distance established pursuant to subsection (a) shall approve an application
27	for the construction of the facility. In addition to any other reasonable
28	requirements imposed by the board by resolution and without respect to
29	whether such requirements are imposed as part of any zoning regulation
30	pursuant to K.S.A. 12-741 et seq., and amendments thereto, an application
31	shall be approved by the board if the applicant complies with the
32	following:
33	(1) The developer shall submit an application to the board on a form
34	and in the manner specified by the board. Such application shall include:

(A) The name, address and telephone number of the applicant and the
 applicant's contact person for the construction of the facility; and

1 (B) a detailed site plan for the facility, including, but not limited to, 2 proposed locations for turbines and any accessory structures and buildings.

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(2) The applicant shall demonstrate to the board that all applicable setback distances pursuant to subsection (a) will be satisfied.

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5 (3) The applicant shall provide notice, in writing, of the application 6 and the proposed construction of the facility to all owners of any property 7 located within any applicable setback distances provided in subsection (a). 8 The applicant shall publish such notice in the official newspaper of the 9 county in which the proposed facility would be located and in any county that contains property within any of the setback distances provided in 10 subsection (a). The notice shall include a description of the location of the 11 12 proposed facility and the total number of wind turbines and the system 13 height of such wind turbines to be constructed.

14 (4) The applicant shall include information regarding the effects of and plans for avoiding, minimizing and mitigating potential adverse effects 15 16 of the proposed energy facility on public health and safety and shall ensure that any wind turbine of such facility shall not generate instantaneous wind 17 turbine noise in excess of 35 decibels as measured at the property line of 18 19 adjacent landowners. Such applicant shall stipulate in such application and 20 in any instruments that convey a lease or easement for the construction and 21 operation of such facility that:

(A) A landowner shall have the right at any time after construction of
 the facility to choose and contract with any person or entity that provides
 wind turbine acoustic noise measurements to verify compliance with this
 paragraph;

(B) the applicant or developer shall be responsible for payment of the
 costs associated with any wind turbine acoustic measurement conducted
 pursuant to subparagraph (A); and

(C) the applicant or developer shall shut down any turbine that is found to be operating with noise levels in excess of such decibel limitation and shall take any appropriate measures to mitigate the decibel output of such turbine prior to continuing operation of such turbine.

33 (5) For any proposed facility that includes industrial wind turbines, an34 application for construction shall include:

(A) (i) An assessment that identifies the astronomical maximum as well as the anticipated hours per year of shadow flicker expected to be perceived at each residence, educational facility, workplace, healthcare setting, outdoor or indoor public gathering area, other occupied building and roadway within a minimum of one mile of any turbine based on shadow flicker modeling that assumes an impact distance of at least one mile from each of the turbines;

42 (ii) an attestation that shadow flicker shall not fall on any 43 nonparticipating landowner's property or a written commitment to install an optional shadow flicker system that results in no shadow flicker on any
 nonparticipating landowner's property;

3 (B) a description of the planned setbacks that explains why the 4 indicated distances are adequate to protect the public from risks associated 5 with the operation of the proposed wind energy facility and that indicates 6 the distance between each wind turbine and the nearest:

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(i) Landowner's existing building and property line; and

8 (ii) public road and overhead or underground energy infrastructure or 9 energy transmission pipeline within two miles of any such wind turbine;

10 (C) an assessment of the risks of ice throw that includes an ice throw 11 simulation to quantify ice throw risk, blade shear and tower collapse on 12 public safety, including a description of the measures taken or planned to 13 avoid or minimize the occurrence of such events and the alternative 14 measures considered but not included by the applicant;

15 (D) a description of the lightning protection system planned for the 16 proposed facility;

17 (E) a description of the federal aviation administration's lighting, 18 turbine color and other requirements for the wind turbines and any 19 determination made by the federal aviation administration regarding 20 whether any hazard to aviation is expected from any of the wind turbines 21 included in the proposed facility;

(F) a decommissioning plan prepared by an independent, qualified
 person or entity with demonstrated knowledge and experience in wind
 generation projects and cost estimates. Such decommissioning plan shall
 be in place prior to the operation of the facility and shall include:

(i) A description of sufficient and secure funding to implement the
decommissioning plan that does not account for the anticipated salvage
value of facility components or materials;

(ii) the provision of financial assurance in the form of an irrevocable
standby letter of credit, performance bond, surety bond or unconditional
payment guaranty executed by a parent company of the facility owner
maintaining at all times an investment-grade credit rating. Such financial
assurance shall be:

(a) Provided in an amount that is not less than $\frac{1}{4}$ of the total cost of construction of such facility;

(b) updated at least once every five years to account for and adjust
such financial assurance amount to reflect the average changes in the
consumer price index for all urban consumers as published by the United
States department of labor for each calendar year that precedes such
update; and

41 (c) accessible by the county so that the county may initiate
42 decommissioning of the facility if such facility has been abandoned or has
43 not generated any electricity within the previous 24 months;

1 (iii) a requirement that such plan be resubmitted and reviewed by the 2 board at least once every five years to ensure that the amount planned for 3 decommissioning is sufficient and complies with the requirements of this 4 section;

5 (iv) a plan for disassembly and removal of all turbines, including the 6 blades, nacelles and towers from the site;

7 (v) a plan for the removal from the site of all transformers, overhead 8 power collection conductors and electric poles;

9 (vi) a plan for the removal from the site of all underground 10 infrastructure that is at depths of four feet or less below grade and the 11 abandonment in place of all underground infrastructure at depths greater 12 than four feet below finished grade; and

(vii) a plan to fill, grade to match adjacent contours and appropriately
 reseed areas where subsurface components are removed to stabilize such
 areas and allow them to revegetate naturally;

(G) a plan for fire protection for the proposed facility that is prepared
by or in consultation with a fire safety expert; and

(H) an assessment of the risks that determines whether the proposed
 facility will interfere with the weather radars used for severe storm
 warning or any local weather radars.

(c) (1) Upon the filing of an application and publication of notice pursuant to subsection (b), the board of county commissioners shall hold a public hearing on the application at least 20 days, but not more than 90 days, after the publication of such notice. The board shall deny the application if the board finds that the developer failed to comply with any of the requirements set forth in this section.

(2) If an application for construction is denied, nothing in this section
 shall prohibit a developer from resubmitting to the board an application for
 construction pursuant to this section.

(d) Nothing in this section shall prohibit zoning regulations adopted
 pursuant to K.S.A. 12-741 et seq., and amendments thereto, from imposing
 additional conditions or limitations with respect to facilities, approval of
 facilities or setbacks required for facilities.

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(e) For the purpose of this section:

(1) "Airport" means any area of land or water designed and set aside
for the landing and takeoff of aircraft and utilized or to be utilized in the
interest of the public for such purposes, including any such private airstrip,
landing strip or area used for military or commercial purposes.

(2) "Applicant" means any developer filing an application pursuant to
this act. In the event that there is more than one person or entity qualifying
as a developer, any of such persons or entities may serve as the applicant
pursuant to this act.

43 (3) "Astronomical maximum" means the theoretical maximum

number of hours that shadow flicker will be produced at a location
 assuming the sun is shining all day from sunrise to sunset, the rotor-plane
 of the turbine is always perpendicular to the sun and the turbine is always
 operating.

5 (4) "Board" means the board of county commissioners of the county 6 to which an application is submitted.

7 (5) "Developer" means any person, firm, partnership, corporation, 8 limited liability corporation, association, cooperative corporation or other 9 entity desiring to construct all or any portion of a facility and holding by 10 lease, easement or otherwise the real property rights necessary for 11 construction of a facility. "Developer" includes any of the persons or 12 entities that may hold record title to the real property rights used or 13 intended to be used for a facility.

(6) "Facility" means an electric generation facility consisting of one
or more wind turbines and any accessory structures and buildings,
including substations, meteorological towers, electrical infrastructure,
transmission lines and other appurtenant structures located within the
boundaries of land where a developer plans to construct all or a portion of
such electric generation facility.

20 (7) "Industrial wind turbine" means any wind turbine with a 21 generating capacity in excess of one megawatt.

(8) "Nonparticipating landowner" means any landowner who has not signed a lease agreement for the installation of an industrial wind turbine and owns real property adjacent to real property in which a landowner has signed a lease agreement for the installation of an industrial wind turbine.

(9) "Residential property" means any single-family dwelling, multifamily dwelling that contains two or more separate residential dwelling
units, rural home site or farm home site that has been used as a residence
within the last three years preceding an application filed pursuant to this
section.

(10) "Shadow flicker" means the alternating changes in light intensity
that can occur when the rotating blades of a wind turbine are back-lit by
the sun and cast moving shadows on the ground or on structures.

(11) "System height" means the total height of a wind turbine as
measured from the end of one blade of such turbine in a vertical position
to the lowest point of the tower base.

(12) "Wind easement" means a right, whether stated in the form of a
restriction, easement, covenant or condition, in a deed, will or other
instrument executed by or on behalf of an owner of land for the purpose of
ensuring adequate exposure of a facility to the winds.

41 Sec. 2. (a) Any developer, owner or operator of any facility that has 42 commenced operation in this state shall:

43 (1) Operate such facility in a manner such that no permanent

1 residential dwelling shall experience shadow flicker under the normal 2 operating conditions of such facility. If the owner or resident of any 3 permanent residential dwelling experiences such shadow flicker, such 4 owner or resident may submit a request to the developer, owner or operator 5 of the facility to eliminate such shadow flicker. If the developer, owner or 6 operator of any such facility receives such a request, such developer, 7 owner or operator shall take immediate steps to eliminate the shadow 8 flicker occurring upon such dwelling, including temporarily ceasing the 9 operation of the offending turbine until achievement of the shadow flicker 10 mitigation strategy. If the developer, owner or operator of a facility does not take action to eliminate such shadow flicker or is unable to eliminate 11 12 such shadow flicker within 60 calendar days from the date any such 13 request was received, the developer, owner or operator of the facility shall 14 discontinue operation of the turbine until an inspection is done to verify 15 that any subsequent mitigation strategies undertaken by the developer, 16 owner or operator are sufficient to eliminate such shadow flicker on the 17 permanent residential dwelling.

18 (2) Be adequately insured against loss or damage arising from 19 liability to adjacent persons, properties and structures that are within the 20 minimum setback distances provided in section 1, and amendments 21 thereto. Such insurance shall be adequate to insure against the risks 22 associated with the operation of the facility within such setback distances 23 and shall insure against risks associated with ice throw, blade shear, tower 24 collapse and any other damage caused by the operation of the facility.

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(b) As used in this section:

(1) "Residential property" means any single-family dwelling, multifamily dwelling that contains two or more separate residential dwelling
units, rural home site or farm home site that has been used as a residence
within the preceding three years.

30 (2) "Developer," "facility" and "shadow flicker" mean the same as31 defined in section 1, and amendments thereto.

Sec. 3. This act shall take effect and be in force from and after itspublication in the Kansas register.